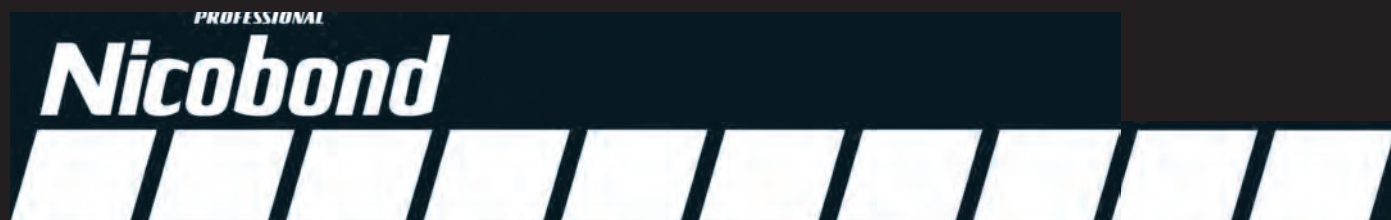





# Tiling Products

*Far East Edition*





The Nicholls & Clarke Group is a business dedicated to the manufacture and supply of the finest building materials. Founded in 1875 in London, we have grown from servicing the capitals' building trades to becoming the largest privately owned national manufacturer and distributor of fine quality building products.

Quality manufacturing is at the core of our business and comes as standard. We own state of the art manufacturing facilities based across the UK and Central Europe. This gives us the broadest manufacturing capability available, allowing us to offer an extensive portfolio of product, more specialised than that of any of our competitors.

Since 2005 Nicobond products have been proudly manufactured in Dongguan, China. This has enabled Nicobond to build on its 40 year heritage in the Far East offering high quality products to our business partners. Regional production allows Nicobond to respond quickly and competitively to our clients needs whilst reducing our global footprint maintaining our ethos of caring for the environment.

Nicholls & Clarke Group是一家致力於頂級建材製造與供應的公司。我們于1875年成立於倫敦，起初從事倫敦建材交易，后來成長為規模最大的私有頂級建築產品全國製造商和分銷商。優質製造是我們業務的核心和標準。我們擁有位於英國和歐洲中部的一流的製造設施。由此具備涵蓋範圍最廣的製造能力，能☑提供一系列廣泛的產品組合，較其他同業更具業界專長。

自2005年以來，中國東莞成為Nicobond產品的製造地，我們引以為豪。Nicobond由此得以在40年傳承的基礎上，在遠東地區為我們的商業夥伴提供高質量產品。Nicobond通過區域生產實現了對客戶需求的迅速應對，把握競爭優勢，并減少了我們的全球碳足跡，秉承環保理念。

## For your complete tiling needs

As leading, quality manufacturers and distributors of tiling products and systems within the tile industry, N&C Nicobond offer the complete tiling solution, with the ability to supply all the tools and materials required for tiling projects with varying requirements. With well over 55 years in the market, we have broad, unrivalled expertise and experience in providing solutions to help overcome different types of tiling problems, from day to day common issues, to the most challenging of installations where product performance and quality are vital.

N&C Nicobond have the ability to offer invaluable technical expertise and advice for our client for the ultimate in confidence, reliability and service.

### 滿足您鋪貼瓷磚的全套解決方案

作為鋪貼瓷磚行業產品和系統的領先高質量製造商和分銷商，

N&C Nicobond提供全套鋪貼瓷磚解決方案，

並根據各種不同需求提供瓷磚項目所需的全套工具和材料。

我們具備超過55年的市場經驗以及全面、一流的專業特長與經驗，

從常見瓷磚問題，到產品性能和質量作為關鍵的最具挑戰性的安裝難題，

我們提供針對各類問題的解決方案。

N&C Nicobond能夠為客戶提供寶貴的技术專長和諮詢建議，

以可靠服務贏得了客戶的一貫信賴。

# Our history & heritage *leading the way ahead...*

Founded in London (UK) in 1875, Nicholls & Clarke have grown from strength to strength with over 140 years of experience and expertise in the manufacture and distribution of high quality building products. The journey saw huge developments into new areas of trade through diversifying and ongoing product development to meet the needs of different markets.



In the earliest days, it was the experimentation of raw materials for paint that formed an important part of the evolution of Nicobond Products.

The sensational discovery of emulsion paint was made through experimenting with Polyvinyl Acetate Emulsion, a raw material that was new to the paint trade by Mr A.E.G. Brown at our former Nicholls & Clarke factory in Bow, London. The success of Nicoloid Emulsion Paint was staggering and changed the face of interior decorating for both the public and trade.

In an attempt to diversify and make use of the new polymer emulsion, Dr Eric Leigh, a former Chemist at our factory experimented with various paste formulations. In a moment of inspiration, one of these



was used to fix a tile to a wall. It very quickly became apparent that an exciting new product had been invented as attempts to remove the tile proved difficult. It had superb adhesion in excess of 300lbs p.s.i compared to about 5lbs p.s.i for sand and cement. Samples were sent to tile manufacturers which resulted in exciting reports and feedback, that led to the development of the first ready mixed tile adhesive paste.

The success was unprecedented and was to be a breakthrough in tile fixing internationally. The product was to be called Nicobond Tile Cement, today known as Nicobond Tile Adhesive.

Tile fixing prior to the introduction of Nicobond Tile Cement consisted of installations using either black solvent based adhesive or sand and cement mortar, which required highly skilled operators with only cement rendered surfaces used as a suitable base. Nicobond Tile Cement was pure white, easy to use and easy to clean off with water. Furthermore, it became apparent that tiling could be carried out directly to plaster, cement, and painted surfaces and even onto old tiles. This has radically changed the tile industry, as manufacturers we were able to reduce the thickness of tiles to produce modern tiles that we still see today. Pre-soaking of tiles before fixing also became a thing of the past.

Nicobond became a success in a short space of time. Sales were being made throughout the UK, Europe and Worldwide. From these early beginnings Nicobond has continued to innovate, develop and expand. Today Nicobond offers a diverse portfolio of products and has extended manufacturing overseas with factories in Dubai and Dongguan, China to serve our Middle Eastern and Asian markets.



ISO 9001 : 2008



ISO 9001 : 2008



QSPS - TA



QSPS - TA



## Experience

Established in 1875, Nicholls & Clarke has pedigree that has been developed over many years. Through great heritage, we have gained a depth of knowledge and invaluable experience in the manufacturing and supplying of Nicobond products to the construction market. We have experience across many industries with a huge portfolio of products suited to all project environments.

## Inventors & Innovators

N&C Nicobond invented ready mixed tile adhesive in 1958 and continue to be at the forefront of innovation, embracing new technology within the industry and better defining our portfolio with products that perform, but where quality and functionality are at its peak. As inventors, we continue to engage in research and development and have spent more than 55 years developing innovative Nicobond products that solve the challenges faced in today's construction industry.

## Technical Service

The N&C Nicobond technical team has well over 150 years of combined experience in the tile adhesive & screeding industry. We are able to offer a full technical specification service. A technical written specification is available on request.

## Product Quality

All Nicobond products are tried and tested prior to being introduced into the marketplace. All Nicobond adhesives and grouts achieve classifications that meet EN Standards for the optimum product confidence and quality.

## Customer Care

We aim to provide you with an outstanding level of customer service that will help to further enhance the service you offer to your clients. We monitor our performance levels and strive to achieve 100% client satisfaction. We believe that open channels of communication with our customers, coupled with their feedback are a sure way of further improving our customers buying experience.

## International

N&C Nicobond products are used in over 70 countries throughout the world in some of the most demanding commercial situations and climates imaginable. This worldwide experience has furthered the development of some of the latest technologies we now use in the U.K.

## Research & Development

The chemists in our highly equipped laboratories are constantly engaged in research and development. Investment in the latest laboratory equipment and testing facilities allow us to push forward with the development of the next new technology or raw material that will further enhance product performance or handling characteristics. Prior to going to market, we undergo rigorous testing of all our products to ensure that performance is to a high standard. All products are tested to meet the relevant standards and regulations.

## Trade Associations & Technical Committees

N&C Nicobond has been heavily involved in the creation of British & European Standards for decades. We have chaired The Tile Association and their Wetroom Technical Committee. We continue to push for stringent policing of the industry which would stop manufacturers falsely claiming specific European Standards on packaging. Our philosophy has always been to drive up quality and standards whilst remaining highly competitive.

## British & Far East Manufacturers

Our four state of the art U.K. and Far East manufacturing facilities comply with ISO 9001 and ISO 14001, utilise the latest manufacturing technologies and apply stringent quality control checks during every part of the manufacturing process. Only the highest quality raw materials, product formulations and packaging materials are used, ensuring the finished product meets our exacting standards, far exceeding those of the latest European standards.

As part of our commitment to the region we have also engaged with the Hong Kong Quality Assurance Agency and are accredited with the PCCS-TA Product Conformity Scheme for the production and supply of Tile Adhesives.

## Warranties

N&C Nicobond products are manufactured to such high and exacting standards enabling us to offer a 10 year warranty on all of our adhesives, grouting compounds and screeds.

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## Product Features Key





# A business dedicated to a sustainable future

The environment matters. N&C Nicobond are committed to a continuous programme of improvement in this important area of business. We have an environmental committee which meets regularly to assess our performance and levels of progress. We train all our people to be environmentally aware in the workplace as we can all make a difference on a daily basis.



As manufacturers and distributors, Nicholls & Clarke has made a corporate commitment to improving its environmental performance through an Environmental Policy. This will provide the framework for all of our work, whether it is in relation to energy efficiency, sustainable waste management or sustainable transport. A committee (Environmental Committee) will implement this policy by developing programmes of work that constitute an Environmental Management System. The Environmental Committee will monitor the effectiveness of its policies and actions.

**Together, we will promote the best use of environmental practice and more particularly Nicholls & Clarke will:-**

- Continuously improve environmental performance
- Reduce consumption of resources
- Measure and take action to reduce the carbon footprint of business activities
- Ensure environmental criteria are taken into account in the procurement of goods and services
- Encourage staff involvement in environmental issues
- Expect similar environmental standards from all business partners
- Meet or exceed all environmental legislation that relates to the business

**To meet these commitments Nicholls & Clarke will:-**

- Set and monitor strategic objectives and targets for managing environmental performance
- Communicate internally and externally this commitment and environmental performance
- Work together with staff and business partners to promote improved environmental performance
- Review the environmental policy regularly

## International Standards – Achieving ISO14001

With the growing demand for products to be sourced from more eco-friendly production, a high volume of carbon dioxide emissions have been considerably reduced. This is as a result of the new procedures in place to effectively tackle climate change and the negative effects on the environment, continually advocating the prudent use of natural resources. These processes have led to the accreditation of ISO 14001, the international standard for environmental management systems (EMS). This achievement ensures that our customers are benefiting by proving the products are sourced from an ISO 14001 company.

*"Through controlling our CO2 emissions, our customers benefit by sourcing their products from a responsible manufacturer. We have recognised the importance of the environment on future generations and proactively work towards reducing the environmental impact within our manufacturing processes.*

Stephen Forbes, Deputy Chairman, Nicholls & Clarke.

## Nicobond Quality Assurance

All Nicobond adhesives and grouts have been tried and tested for quality assurance and meet the relevant EN Standards Classification to give you the ultimate confidence in our products. Our tile adhesives meet the requirements of the Hong Kong Quality Assurance Agency and are accredited with the PCCS-TA Product Conformity Scheme.

### Guide to Adhesives And Grouts For Tiles European Standards EN 12002/12004/13888

**EN12002** Classification for cement based adhesives with a degree of flexibility or defromable characteristics categorised as Type C class S.

Category	Product Characteristics
S1	Defromable adhesive
S2	Highly defromable adhesive

**EN13888** General classification for cement based grouts Type C class G. Reaction Resin Grouts Type R class G.

Category	Product Characteristics
CG1	Normal cementitious grout
CG2	Improved cementitious grout with additional characteristics
RG	Reaction resin grout

**EN12004** General classification for cement based adhesives categorised as Type C.  
Ready mixed or paste adhesives categorised as Dispersion adhesives Type D.  
Epoxy resin adhesives categorised as Reaction Resin Adhesives Type R.

Category	Product Characteristics
C1	Normal cementitious adhesive
C1 F	Fast-setting cementitious adhesive
C1 T	Normal cementitious adhesive with reduced slip
C1 FT	Fast-setting cementitious adhesive with reduced slip
C2	Improved cementitious adhesive with additional characteristics
C2 E	Cementitious adhesive with extended open time
C2 F	Improved fast-setting cementitious adhesive with additional characteristics
C2 T	Improved cementitious adhesive with additional characteristics and reduced slip
C2 TE	Improved cementitious adhesive with additional characteristics, reduced slip and extended open time
C2 FT	Improved fast-setting cementitious adhesive with additional characteristics and reduced slip
D1	Normal dispersion adhesive
D1 T	Normal dispersion adhesive with reduced slip
D2	Improved dispersion adhesive with additional characteristics
D2 T	Improved dispersion adhesive with additional characteristics and reduced slip
D2 TE	Improved dispersion adhesive with additional characteristics, reduced slip and extended open time
R1	Normal reaction resin adhesive
R1 T	Normal reaction resin adhesive with reduced slip
R2	Improved reaction resin adhesive with additional characteristics
R2 T	Improved reaction resin adhesive with additional characteristics and reduced slip

### Guide to Screed Material and Floor Screeds European Standard EN 13813

**EN13813** Classification for Screed material and floor screeds  
Screed Material - Properties and requirements.

Category	Product Characteristics
CT	Cementitious Screeds to EN 13892-2: 2002
C	Compressive Strength in N/mm <sup>2</sup>
F	Flexural Strength in N/mm <sup>2</sup>

## Our Commercial Partners

We have worked in partnership with an extensive list of customers throughout the UK and worldwide on some of the most demanding projects imaginable. Our first UK and export project was completed 55 years ago, yet our products continue to perform today and will continue to do so for the life of the building or project.

This pedigree has created ultimate confidence in N&C Nicobond products. Today we have N&C Nicobond products specified by many recognised UK and international brands and are also working with top, premiere contractors, who in turn work in partnership with these brands.



# Nicobond CT300 Ceramic Tile Adhesive

Standard set wall and floor tile adhesive



## Description

A thin or thick-bed, waterproof, cement based adhesive, formulated for use in hot and humid climates. For use with most types of ceramic wall and floor tiles, mosaics, marble, granite and other natural stones to: sand/cement render, blockwork, screeds and concrete. When mixed with diluted Nicobond Enhancer 2002, can be used for bonding to: glazed and painted surfaces, steel, power-floated screeds, plywood and tile backer boards.

Complies with EN 12004



Walls



Floors



Interior



Exterior



Non-Slip



Water  
Resistant



## Product Characteristics

- Excellent initial grab
- Non-slip
- Water resistant
- Internal and external applications
- Tropical climate formulation
- Compatible with Under-tile heating systems
- Ultra low VOC content  
meets LEED requirements

## Product Features

Colour: White, Grey

Max Bed Thickness: 10mm

Coverage: 2 - 4 kg/m<sup>2</sup>

Adjustment Time: 20 mins

Grouting: 8 - 12 hrs

Pot Life: 4 hrs

Open Time: 20 mins

## Application Data

Colour	Grey & White
Mixing Ratio (water only)	Approx 100 : 22 ~ 24% (Approx 20kg to 4.4 ~ 4.8 litres clean water)
Mixing Ratio (with Nicobond Enhancer 2002)	For every 100kg of powder, mix approx 8 litres of Enhancer and 16 litres of clean water and use as the gauging liquid.
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 mins, mix again and then use.
Consistency of mix	slump resistance mortar
Maximum bed thickness	Up to 10mm
Coverage	1.35kg/mm/m <sup>2</sup>
Pot Life	Approx 1 hours at 20°C
Open Time	Approx 20 minutes at 20°C
Adjustability Time	Approx 15 - 20 minutes at 20°C
Setting time	Approx 18 - 24 hours at 20°C
Grouting After Fixing	Approx 8 - 12 hours at 30°C
Ready For Light foot Traffic	Approx 12 hours at 30°C
Installation Temperature	Minimum 5°C - 30 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months form date of manufacture
Packaging	20kg

## Specification

The adhesive shall be Nicobond CT300 Ceramic Tile Adhesive as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Floor and Wall Adhesive

Cement based standard set wall and floor tile adhesive with enhanced properties.



## Description

A thin or thick-bed, waterproof, polymer modified, cement based adhesive. Recommended for the interior or exterior bonding of ceramic wall and floor tiles, mosaic, marble, granite and other natural stones to: sand/cement render, blockwork, screed and concrete.

When mixed with diluted Nicobond Enhancer 2002, can be used for bonding to: glazed and painted surfaces, steel, power floated screeds, flooring grade asphalt, plywood and tile backer boards.

Complies with EN 12004



Walls



Floors



Interior



Exterior



Non-Slip



Water  
Resistant



Swimming  
Pools



## Product Characteristics

- Thick or thin bed adhesive
- Excellent initial grab
- Non-slip
- Internal and external applications
- Suitable for tiling swimming pools
- Grout after 18 – 24 hours
- Compatible with Under-tile heating systems
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: White, Grey

Max Bed Thickness: 12mm

Coverage: 2 - 4kg/m<sup>2</sup>

Adjust Time: 15 - 20 mins

Grouting: 18 - 24 hrs

Pot Life: 4 hrs

Open Time: 15 - 20 mins

## Application Data

Colour	Grey & White
Mixing Ratio (water only)	20kg: 4.8 ~ 5.2kg 100%: 24 % ~ 26% by weight
Mixing Ratio (with Nicobond Enhancer 2002)	For every 100kg of powder, mix approx 9 litres of Enhancer and 17 litres of clean water and use as the gauging liquid.
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Consistency of mix	slump resistance mortar
Bed thickness	Up to 12 mm
Coverage	Notched Trowel method: 2kg per m <sup>2</sup> Solid bed. 3-4 kg per m <sup>2</sup> at 3mm
Pot Life	Approx 4 hours at 20°C
Open Times	15 - 20 minutes at 20°C
Adjustability Time	15 - 20 minutes at 20°C
Setting time	Approx 18 - 24 hours at 20°C
Grouting After Fixing	Approx 18 - 24 hours at 20°C
Ready For Light foot Traffic	Approx 18 - 24 hours at 20°C
Installation Temperature	Minimum 5°C - 30 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months form date of manufacture
Packaging	20kg



## Specification

The adhesive shall be Nicobond Floor & wall Adhesive as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Quickflex

A premium fast setting polymer modified flexible wall and floor tile adhesive



## Description

A single part, polymer enhanced, fast setting cement based waterproof and flexible adhesive for fixing, wall and floor tiles, porcelain, mosaic and moisture sensitive natural stones in areas where speed of fit and early bond strength development are essential.

Complies with EN 12004



Walls



Floors



Interior



Exterior



Non-Slip



Water  
Resistant



Undertile  
Heating



Swimming  
Pools



3 Hour Set



## Product Characteristics

- Use to fix moisture sensitive natural stones such as limestone
- Fast setting formulation
- Excellent initial grab and non slip
- Suitable for fast track applications
- Internal and external applications
- Suitable for tiling swimming pools
- Ultra Low VOC Content meets LEED requirements.

## Product Features

Colour: White, Grey

Max Bed Thickness: 10mm

Coverage: 2 - 4kg/m<sup>2</sup>

Adjust Time: 10 - 15 mins

Grouting: 2 hrs

Pot Life: 1hr

Open Time: 15 mins

## Application Data

Colour	White , Grey
Mixing Ratio (water only)	Mixing Ratio (water only) Approx 100 : 26 ~ 28% (Approx 20kg to 5.2 ~ 5.6 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Consistency of mix	slump resistance mortar
Maximum bed thickness	Up to 10
Coverage	1.4kg/mm/m <sup>2</sup>
Pot Life	Approx 1hour at 20°C
Open Times	Approx 15 - 20 minutes at 20°C
Adjustability Time	10 - 15 minutes at 20°C
Setting time	Approx 2 hours at 20°C
Grouting After Fixing	Approx 2 hours at 20°C
Ready For Light foot Traffic	Approx 2 hours at 20°C
Installation Temperature	Minimum 5°C - 35 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg

## Specification

The adhesive shall be Nicobond Quickflex as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Single Part Flexible Adhesive

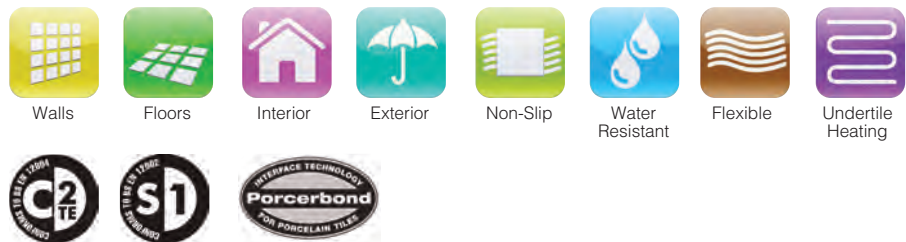
Highly polymer modified flexible standard set wall and floor tile adhesive



## Description

A single part, polymer enhanced, cement based waterproof and flexible adhesive for fixing glass, wall and floor tiles, mosaic and natural stones, fully vitrified, homogeneous or porcelain tiles and other tiles with low porosity without the need of an admixture. A standard setting adhesive with high initial grab and resilient bond. Can be used in areas where slight vibration occurs. Nicobond Single Part Flexible Adhesive will bond to most substrates.

Complies with EN 12004 and EN 12002



## Product Characteristics

- Fixes Porcelain and fully vitrified tiles
- Highly flexible cement based tile adhesive
- High bond strength
- Extended open time
- Excellent initial grab - non-slip
- Suitable for tiling swimming pools
- Compatible with Under-tile heating systems.
- Major savings against a traditional adhesive that use admixes
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: White, Grey

Max Bed Thickness: 12mm

Coverage: 1.4kg/mm/m<sup>2</sup>

Adjust Time: 15 - 20 mins

Grouting: 12 - 18 hrs

Pot Life: 5 hrs

Open Time: Approx 30 mins

## Application Data

Colour	White, Grey
Mixing Ratio (water only)	Powder to water: 20kg to 4.4 ~ 4.8kg 100%: 22% ~24% (Approx 20kg to 4.2 ~ 4.6 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 mins, mix again and then use.
Consistency of mix	slump resistance mortar
Maximum bed thickness	Up to 12 mm (6mm Max for Glass Tiles)
Coverage	1.4kg/mm/m <sup>2</sup>
Pot Life	Approx 1hour at 20°C
Open Times	Approx 30 minutes at 20°C
Adjustability Time	120 minutes at 20°C
Setting time	Approx 12 - 18 hours at 20°C
Grouting After Fixing	Approx 12 - 18 hours at 20°C
Ready For Light foot Traffic	Approx 18 - 24 hours at 20°C
Installation Temperature	Minimum 5°C - 35 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg

## Specification

The adhesive shall be Nicobond Single Part Flexible Adhesive as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Single Part Ultraflex Adhesive

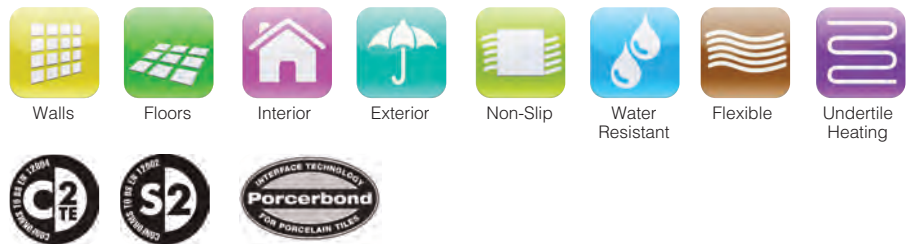
A premium highly flexible and defromable, standard setting wall and floor tile adhesive.



## Description

A single part, highly polymer enhanced, cement based waterproof and highly flexible adhesive for fixing large porcelain, homogenous mosaics and dense natural stone tiles in interior or exterior situations. A standard setting adhesive with high initial grab and resilient bond. Can be used in areas where slight vibration occurs. Nicobond Single Part Ultraflex will bond to most substrates.

Complies with EN 12004 and EN 12002 Standards



## Product Characteristics

- Use to fix large porcelain
- Flexible Adhesive to S2 Standard
- Accommodates movement due to thermal stresses
- Bonds to most surfaces
- Excellent initial grab – non slip
- Extended open time
- Internal and external applications
- Suitable for tiling swimming pools
- Low VOC Content meets LEED requirements.

## Product Features

Colour: White, Grey

Max Bed Thickness: 10mm

Coverage: 1.4kg/mm/m<sup>2</sup>

Adjust Time: 20 mins

Grouting: 12 - 18 hrs

Pot Life: 1 - 2 hrs

Open Time: 30 mins

## Application Data

Colour	Colour White, Grey
Mixing Ratio (water only)	Mixing Ratio (water only) Approx 100 : 21 ~ 23% (Approx 20kg to 4.2 ~ 4.6 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Consistency of mix	slump resistance mortar
Maximum bed thickness	Up to 10mm
Coverage	1.4kg/mm/m <sup>2</sup>
Pot Life	Approx 1 hour at 20°C
Open Times	Approx 30 minutes at 20°C
Adjustability Time	20 minutes at 20°C
Setting time	Approx 12 - 18 hours at 20°C
Grouting After Fixing	Approx 12 - 18 hours at 20°C
Ready For Light foot Traffic	Approx 18 - 24 hours at 20°C
Installation Temperature	Minimum 5°C - 35 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg

## Specification

The adhesive shall be Nicobond Single Part Ultraflex Adhesive as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Mosaic Adhesive and Grout

A premium polymer modified dual function adhesive and grout



## Description

A single part, polymer enhanced, standard setting cement based waterproof combined adhesive and grout specially designed for fixing and grouting ceramic, homogenous, porcelain and natural stone mosaics in interior and exterior situations including external wall facades and swimming pools.

Complies with EN 12004 and EN 13888



Walls



Floors



Interior



Exterior



Non-Slip



Water  
Resistant



Swimming  
Pools



## Product Characteristics

- Dual Purpose - Fix and grout
- Time saving
- Non slip
- Pre bagged for better site control
- Improved colour management
- Internal and external applications
- Suitable for tiling swimming pools
- Ultra Low VOC Content meets LEED requirements.

## Product Features

Colour: White, Grey and 22 other colours

Max Bed Thickness: 10mm

Coverage: 2 - 4kg/m<sup>2</sup>

Adjust Time: 10 - 15 mins

Paper face removal : Approx 45 – 60 mins

Pot Life: 1 – 2 hrs

Open Time: 20 mins

## Application Data

Colour	White, Grey and a range of colours
Mixing Ratio (water only)	Mixing Ratio (water only) Approx 100 : 23 ~ 25% (Approx 20kg to 4.6 ~ 5.0 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Consistency of mix	slump resistance mortar
Maximum bed thickness	Up to 10
Coverage	1.3kg/mm/m <sup>2</sup>
Pot Life	Approx 1-2 hrs at 20°C
Open Times	Approx 20 minutes at 20°C
Adjustability Time	10 - 15 minutes at 20°C
Setting time	12 - 18 hrs after fixing at 20°C
Grouting After Fixing	Approx 12 hours at 20°C
Ready For Light foot Traffic	Approx 12 hours at 20°C
Installation Temperature	Minimum 5°C - 35 °C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg

## Specification

The adhesive shall be Nicobond Mosaic Adhesive and Grout as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Tilers Grout

Nicobond Tilers Grout is a polymer modified cement based waterproof grouting compound suitable for grouting ceramics, porcelain, mosaics, marble and other natural stones.



## Description

Nicobond Tilers Grout is suitable for filling narrow joints up to 6mm wide and produces a fine finish. Tilers Grout is weather resistant and has excellent bonding capabilities to glazed or porous edges of tiles or mosaics. Once hardened, it is unaffected by water and can be used for internal and external tiling in dry and wet conditions, including swimming pools with non-aggressive water conditions. It is available in brilliant white, grey and a range of 22 other colours.

Tilers Grout can be used with the addition of Nicobond Enhancer 2002 mortar admix to produce tile joints with improved adhesion, flexibility, elasticity and water repellence.

Complies with EN 13888 CG1, ANSI, BS5980 and HKHA Standards



Walls



Floors



Interior



Exterior



Water Resistant



Swimming Pools



## Product Characteristics

- Easy to apply and clean off.
- For use on walls and floors.
- Excellent adhesion to the porous or glazed edges of tiles.
- For internal and external applications.
- Suitable for swimming pools.
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: Wide range available

Narrow Joint : up to 6mm

Coverage: See chart on page 18

Pot Life: Approx 60 mins

Setting Time: 18 - 24 hrs

Serviceable: Approx 24hrs

## Application Data

Mixing Ratio (Water only) Narrow Joint Grout	Mixing Ratio (water only) Approx 100: 26 ~ 28% (Approx 20kg to 5.2 ~ 5.6 litres clean water)
Mixing Ratio with Nicobond Enhancer 2002 Narrow Joint Grout	For every 20g of powder mix 2 litres of Enhancer 2002 with approx 3.5 litres of water and use as the gauging liquid
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Colours	See page 18
Consistency of mix	Smooth paste
Pot Life	1 hour at 20°C
Surface drying Time	10 - 20 minutes dependent on temperature
Set Time	18 - 24 hours dependent on temperature.
Joint Width	Narrow Joint: Up to 6mm
Grout MF Factor	1.8
Installation Temperature	Minimum 5°C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg



## Specification

The grout shall be Nicobond Tilers Grout as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Pointing Mortar

A polymer modified cement based, sanded, waterproof grouting compound suitable for grouting ceramic wall and floor, porcelain, homogenous and extruded tiles, mosaics, marble and other natural stones.



## Description

Nicobond Pointing Mortar is suitable for filling wide joints up to 20mm wide. Pointing Mortar accommodates wide joints without cracking and has excellent bonding capabilities to glazed or porous edges of tiles. Once hardened is unaffected by water and can be used for internal and external tiling in dry and wet conditions, including swimming pools with non-aggressive water conditions. It is available in brilliant white, grey and a range of 22 other colours. Pointing Mortar can be used with the addition of Nicobond Enhancer 2002 mortar admix to produce tile joints with improved adhesion, flexibility, elasticity and water repellence.

Complies with EN 13888 CG1, ANSI, BS5980 and HKHA Standards



Walls



Floors



Interior



Exterior



Water Resistant



Swimming Pools



## Product Characteristics

- Wide joint applications
- Easy to apply and clean off.
- For use on walls and floors.
- Excellent adhesion to the porous or glazed edges of tiles.
- For internal and external applications.
- Suitable for swimming pools.
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: Wide range available

Wide Joint: up to 20mm

Coverage: See chart on page 18

Pot Life: Approx 60 mins

Setting Time: 18 - 24 hrs

Serviceable: Approx 24hrs

## Application Data

Mixing Ratio (Water only)	Mixing Ratio (water only) Approx 100 : 23.5 ~ 25.5% (Approx 20kg to 4.7 ~ 5.1 litres clean water)
Mixing Ratio with Nicobond Enhancer 2002	For every 20g of powder mix 2 litres of Enhancer 2002 with approx 3 litres of water and use as the gauging liquid
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 minutes, mix again and then use.
Colours:	See page 18
Consistency of mix	Smooth paste
Pot Life	Approx 1 hour at 20°C
Surface drying Time:	10 - 20 minutes dependent on temperature.
Set Time:	18 - 24 hours dependent on temperature.
Joint Width:	Narrow Joint: Up to 20mm.
Grout MF Factor	1.8
Installation Temperature	Minimum 5°C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg



## Specification

The grout shall be Nicobond Pointing Mortar as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Flexible Grout Plus

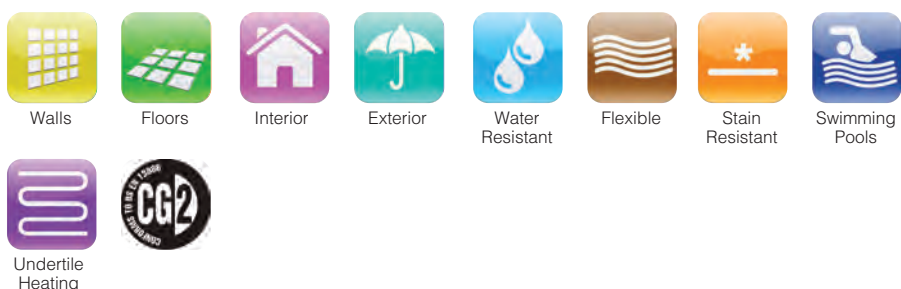
A superior, highly flexible cement based grout with good resistance to efflorescence, anti mould and unique Aquablok technology water repellent properties. Suitable for glass, ceramic, porcelain, mosaic, quarry and natural stone tiles.



## Description

Nicobond Flexible Grout Plus is suitable for filling narrow joints up to 6mm wide and produces a fine finish. It is easy to clean with excellent adhesion to the edges of tiles or mosaics. Nicobond Flexible Grout Plus has reduced water absorption and excellent abrasion resistance making it ideal for use in internal and external tiling in dry and wet conditions, including swimming pools. It is available in brilliant white, grey and a range of colours.

Complies with EN 13888 CG2, ANSI, BS5980 and HKHA Standards



## Product Characteristics

- Available in a range of colours
- Reduced water absorption
- Easy to clean
- For use on walls and floors
- High abrasion resistance
- Internal and external use
- Suitable for swimming pools
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: Wide range available

Narrow Joint : up to 6mm

Coverage: See page 33

Pot Life: Approx 45 mins

Setting Time: 18 - 24 hrs

Ready for Use: Approx 24hrs

## Application Data

Mixing Ratio (Water only)	Mixing Ratio (water only) Approx 100: 20 ~ 22% (Approx 20kg to 4 ~ 4.4 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency. Allow the mortar to stand for 5 mins, mix again
Colours:	See page 18
Consistency of mix	Smooth paste
Pot Life	1 hour at 20°C.
Surface drying Time:	10 - 20 minutes dependent on temperature.
Set Time:	18 – 24 hours dependent on temperature
Joint Width:	Narrow Joint: Up to 6mm
Grout MF Factor	1.7
Installation Temperature	Minimum 5°C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	20kg



## Specification

The grout shall be Nicobond Flexible Grout Plus as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Truepoxy

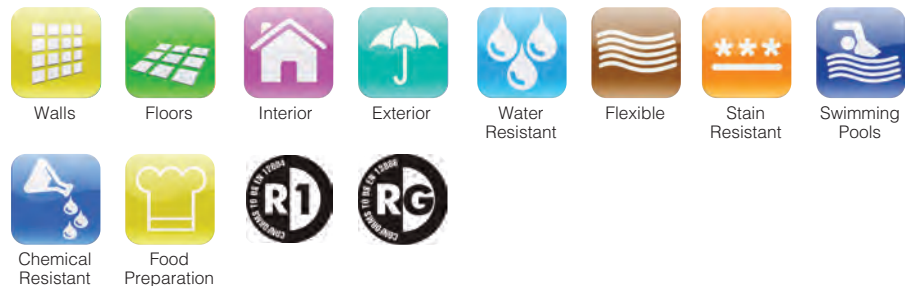
An exceptionally easy to use, solvent free, two part epoxy resin based, new generation epoxy wall and floor tile adhesive and grout for interior and exterior applications.

## Description



Nicobond Truepoxy Grout is suitable for fixing and grouting all types of ceramic wall and floor tiles, porcelain, homogenous and extruded tiles and mosaics. Ideal for use in food preparation and other industrial/commercial areas where a chemical resistance or a totally impervious finish is required. Can be used on backgrounds including mild and galvanised steel but not plastic or fibreglass. Also suitable for use in swimming pools.

Complies with EN 13888, ANSI, BS5980 and HKHA Standards



## Product Characteristics

- Solvent Free
- Easy to clean
- Excellent Chemical Resistance
- Resistant to bacteria
- Hygienic
- Waterproof
- Suitable for swimming pools.

## Product Features

Colour: White, Grey, Flint, Ivory & Sandstone

Joint Width: up to 10mm

Max Adhesive Thickness: 5mm

Pot Life: Approx 45 mins

Setting Time: Approx 12 hrs

Ready for Use: Approx 12 hrs

## Application Data

Mixing Ratio	Mix the two components together in accordance with the instructions on the pail.
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill and mix to a smooth consistency.
Colours:	White, Grey, Flint & Ivory
Consistency of mix	Smooth paste
Pot Life	Approx 30 - 45 mins at 20°C.
Initial Set Time:	Approx 1 - 2 hrs dependent on temperature.
Chemical Resistance:	Very Good – refer to data sheet
Joint Width:	Up to 10mm.
Grout MF Factor	1.6
Installation Temperature	+ 5°C to + 35°C
Serviceable Temperature	Intermittent : Up to 120°C Continuous: Approx 60°C
Ready for service at 20°C	Normal: Approx 12 hrs Full cure: Approx 7 days
Shelf Life	12 months from date of manufacture
Packaging	4kg



## Specification

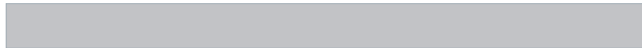
The grout shall be Nicobond Truepoxy Grout as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

## Nicobond Colour Grout Selector

A palette of 24 colours combining harmonious neutral colours and earthy tones. All colours available in Nicobond Tilers Grout, Nicobond Flexible Grout and Nicobond Epoxy Resin Grout. Suitable for ceramics, porcelain, mosaics, marble and natural stone.



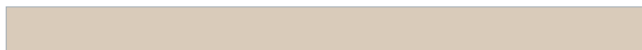
WHITE 1001



PEWTER 1201



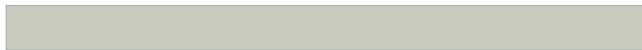
BLUSH 1401



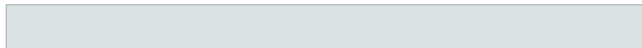
ALMOND 2101



BEIGE 2301



WILLOW 2501



MINT 2521



PORTLAND GREY 3101



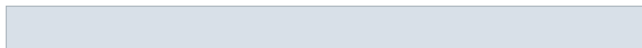
FUDGE 3301



TANNIN 3501



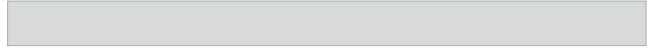
SALMON 3641



CORNFLOWER 3801



GRAPHITE 3901



NIMBUS 1101



CREAM 1301



LATTE 2201



COFFEE 2401



SUNRISE 2511



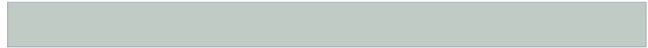
ALABASTER 2601



GRANITE 3201



NUTMEG 3401



OPAL 3541



MINK 3721



PACIFIC 3821

# Nicobond Enhancer 2002

A highly modified acrylic resin emulsion for improving the properties of Nicobond cementitious adhesives and grouts in demanding conditions.



## Description

The use of this additive enables the bonding of large ceramic or porcelain tiles and similar materials to external facades or other demanding situations and environments. Nicobond Enhancer 2002 imparts a higher degree of flexibility to the adhesive which makes it ideal in areas where temperatures fluctuate regularly or where vibration occurs. The use of an Acrylic emulsion also improves resistance to abrasion, weathering, aggressive atmospheres and attack by water borne chemicals in swimming pools.

Complies with EN 12004 and ANSI Standards when mixed with adhesive.



## Product Characteristics

- Promotes adhesion
- Increases cohesive strength
- Creates a defromable adhesive
- Water based
- Non-flammable
- Reduces water permeability
- Reduces efflorescence
- Ultra low VOC content meets LEED requirements

## Application Data

Colour	White
Mixing	Shake the container well before use. Always blend the additive with water in the recommended proportions before adding the powder component.
Mixing Ratio	Refer to the relevant adhesive or grout data.
Walk on time @ 20°C	Refer to the relevant adhesive or grout data.
Installation Temperature	Minimum 5°C
Shelf Life	12 months from date of manufacture.
Packaging	120ltr Drum, 25ltr Polydrum

## Specification

The additive shall be Nicobond Enhancer 2002 as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

## Product Features

Colour: White



# Nicobond Primer

An acrylic dispersion specially formulated to improve adhesion, control suction of absorbent surfaces and inhibit penetration of water in intermittently damp locations.



## Description

Nicobond Primer is used as a pore sealer on floor surfaces to prevent air bubbles rising through subsequently applied sub - floor smoothing compounds and to prolong their flow life and workability. Ideal for priming cement: sand renders, screeds and concrete surfaces prior to the application of Nicobond ceramic tile adhesives.



Walls



Floors



Interior



Exterior



Water Resistant



Swimming Pools

## Product Characteristics

- Improves flow and workability
- Superior bonding agent
- Interior and exterior use
- Water-based
- Non – flammable
- Dries almost transparent
- Will not stain
- Reduces surface porosity
- Ultra low VOC content meets LEED requirements

## Product Features

Effective Primer

Effective Sealer

Compatible with cement based coverings

Non toxic

## Application Data

Colour	White
Mixing	Blend 1 volume of Primer with 4 volumes of cold potable water.
Key Coat:	Blend 1 volume of Primer, 1 volume of water and 1 volume of cement material.
Coverage:	
Neat/undiluted Primer	4 -5 m <sup>2</sup> per lit
Key Coat	15 - 30m <sup>2</sup> per lit
	2 - 3m <sup>2</sup> per lit
Walk on time at 20°C	Touch dry and not transferred to shoes.
Installation Temperature	Minimum 5°C
Shelf Life	12 months from date of manufacture
Packaging	25 Lit JC

## Specification

The primer shall be Nicobond Primer as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Render Improver

A blend of SBR and other polymer emulsions for improving the bond of key-coats and cohesive and tensile strength of sand: cement mortars ,renders and screed.



## Description

Nicobond Render Improver is a multi functional product. It can be diluted with water as a simple primer, blended with cement to form a slurry coat or added to sand and cement as a spatterdash coat. It can also be used as an additive to significantly improve the working characteristics and set properties of mortars, plaster coats and concrete in interior or exterior situations.



Walls



Floors



Interior



Exterior



Water  
Resistant



Flexible



Swimming  
Pools

## Product Characteristics

- Superior bonding agent
- Admixture for waterproof mortar
- Interior and exterior use
- Increases abrasion resistance of cement screeds
- Aids workability
- Water-based
- Ultra low VOC content meets LEED requirements

## Product Features

Superb adhesion to concrete and other substrates

Effective Sealer and primer

Increases tensile and flexural strength

Increases compressive strength

Reduces water demand

Reduces shrinkage

Excellent resistance to water penetration

## Application Data

Colour	White
Mixing Ratio Primer:	Blend 1 volume of NRI with 4 volumes of cold potable water.
Mixing Ratio Key Coat:	Blend 1 volume of NRI with 5 volumes of oPC to form a creamy slurry coat, additional water maybe added if required.
Mixing Ratio Spatterdash:	Blend 1 volume NRI with 2 volumes clean potable water 3 volumes ordinary Portland Cement 6 volumes clean sharp sand to form a coarse slurry and apply by brush to the substrate and allow to dry.
Mixing Ratio Render Coat :	Using a pan/forced action type mixer blend in the required sand and cement and then add 10 litres of NRI per 50kg oPC and water to suit.
Coverage: Primer Diluted 1: 4 Key Coat	15 - 30m <sup>2</sup> per lit 2 - 3m <sup>2</sup> per lit
Bed Thickness Key coat:	2mm, additional coats may be applied after 1st is "touch dry".
Bed Thickness Render coat:	6 - 8mm, additional coats may be applied within approx 20 - 30 minutes.
Repair Mortar / Screed	6 - 60mm thickness.
Compressive Strength* :	36N/mm <sup>2</sup> at 28 days
Tensile Strength*:	5.5N/mm <sup>2</sup> at 28 days
Flexural Strength*:	12N/mm <sup>2</sup> at 28 days
Installation Temperature:	Minimum 5°C
Shelf Life	12 months from date of manufacture
Packaging	200 Lit Drum, 25 Lit Polydrum

\*Compressive, Tensile and Flexural strengths are based on a typical render mix of 50kg oPC, 150kg clean sharp graded sand, 10 litres of NRI and approx 6 litres of water.

## Specification

The admixture shall be Nicobond Render Improver as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Self levelling Underlayment

A fast setting underlayment designed for smoothing sand/cement screed or concrete.



## Description

A technically advanced polymer modified cement based underlayment designed for smoothing sand: cement screed or concrete floors, including smoothing tamped, uneven, damaged or rained-on in situ concrete sub-floors, provides a perfect finish to lay vinyls, carpet or ceramic tiles. For surfacing most types of interior cementitious subfloors prior to laying decorative floorcoverings. Suitable for use in Housing, Commercial Offices, Hospitals, Hotels, Malls and Schools.

Complies with EN and HKHA/MTS Standards



## Product Characteristics

- Self levelling
- Self smoothing
- Self curing
- Cures very hard
- Add water only
- Protein free
- Ultra low VOC content meets LEED requirements

## Product Features

Colour: Grey

Max Thickness: Up to 20mm

High Strength

Coverage: 3.5 kg/m<sup>2</sup> at 2mm

Pot Life: Approx 30 mins

Walk on Time: Approx 8 hours

CT – C30 – F7

## Application Data

Mixing Ratio (water only)	Approx 100 : 20 ~ 22% (Approx 20kg to 4.0 ~ 4.4 litres clean water)
Mixing	For large quantities, use a Nicobond whisk in a slow speed electric drill for a few minutes until a smooth consistency is achieved. Allow the mortar to stand for a minute, re-mix again for a further minute and then use.
Consistency of mix	Smooth creamy lump free consistency
Application Thickness	From 3mm up to 20mm
Working Time	10 - 15 Minutes @ 20°C
Walk on hardness time	Approx 4 hours @ 20°C
At 3mm thickness ready to receive ceramic tiles Resilient floor coverings/ LVT (Dependent on thickness)	Approx 4 hours @ 20°C Approx 8 hours loose lay Approx 12 hours bonded
Coverage	1.7kg/mm/m <sup>2</sup>
Tensile Adhesion Strength 28 days standard conditions	2.00 N/mm <sup>2</sup> (Approx)
Compressive Strength 28 days standard conditions	30.0 N/mm <sup>2</sup> (Approx)
Flexural Strength 28 days standard conditions	7.0 N/mm <sup>2</sup> (Approx)
Flow Rate	135 - 140mm
Installation Temperature	Minimum 5°C
Shelf Life	6 months from date of manufacture
Packaging	20kg



## Specification

The compound shall be Nicobond Self Levelling Underlayment as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Waterproofing Membrane

A premium polymer modified single part cement based waterproofing compound.



## Description

Nicobond Waterproof Membrane is applied directly to cement based substrates as two coat slurry system and provides effective waterproofing for swimming pools, fountains, external wall, water tanks, bathrooms and showers, basements and other applications. Nicobond Waterproof Membrane forms part of Nicobond's complete tiling system and is compatible with Nicobond Render Mixes and Tile Adhesives. Suitable for both interior and exterior situations.

Complies with British Standards



Walls



Floors



Interior



Exterior



Water Resistant



Swimming Pools

## Product Characteristics

- Excellent waterproof properties
- Good damp proofing under moisture sensitive materials
- Apply to wet or damp substrates
- Seals minor hairline cracks in concrete surfaces
- Apply in negative or positive water pressure situations
- Solvent free
- Low VOC Content
- Compatible with Nicobond Tile Adhesive and Grouts

## Product Features

Colour: Grey

Easy to use

High Bond Strength

Vapour permeable

Brush or Trowel application Non toxic

Suitable for external wall tiling

## Application Data

Mixing Ratio (water only)	Trowel: Approx 100: 18 - 20%. (Approx 20kg to 3.6 - 4.0 ltrs clean water)	Brush: Approx 100: 21 - 23%. (Approx 20kg to 4.2 - 4.6 ltrs clean water)
Mixing	Mechanically blend using a paddle in a slow speed electric drill or other mixer for approx 4 – 5 minutes until a smooth consistency is achieved.	
Consistency of mix:	Slump resistance mortar for trowel application	
Application Thickness	Two coats applied at right angles to each other, approximately 1mm thick per coat. Protect from sunshine and draught until cured. Mist spray with water if necessary and allow 1-2 days before tiling.	
Working Time	Approx 20 - 30 mins at 20°C	
Coverage	Trowel: Approx 1.60 kg/mm/m <sup>2</sup> Brush: Approx 1.55 kg/mm/m <sup>2</sup>	
Tensile Adhesion Strength 28 days standard conditions	Trowel: 1.6 N/mm <sup>2</sup> Brush: 1.0 N/mm <sup>2</sup>	
Compressive Strength 28 days standard conditions	Trowel: 55 N/mm <sup>2</sup> Brush: 50 N/mm <sup>2</sup>	
Flexural Strength 28 days standard conditions	2.00 N/mm <sup>2</sup> (Approx) Trowel: 8.5 N/mm <sup>2</sup> Brush: 8.0 N/mm <sup>2</sup>	
Installation Temperature	Minimum 5°C - 35 °C	
Operating Temperature	- 20°C to 100°C	
Shelf Life	12 months from date of manufacture	
Packaging	20kg	



## Specification

The compound shall be Nicobond Waterproof Membrane as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Standard Render Mix

A premium pre-bagged polymer modified cement based material designed to produce a high quality render coat for interior and exterior walls.



## Description

Formulated using specially graded aggregates, cements and polymers Standard Render Mix is capable of being applied at thicknesses up to 25mm in one coat and meets all expectations of high build applications. The product can be applied by hand or sprayed on using a machine on to both new and old cementitious substrates including concrete, brick and block work. It can also be used as a masonry mortar for laying most kinds of brick, block and stone.

Complies with EN and HKHA/MTS Standards



Floors



Interior



Protein Free



Underfloor Heating



Pumpable

## Product Characteristics

- Factory controlled consistent results
- Easy to apply and finish
- Improved render strength
- Reduces water ingress
- Good application control
- Excellent bond strength
- Low VOC Content
- Compatible with Nicobond Tile Adhesives and Grouts

## Product Features

Colour: Grey

Max Thickness: Up to 40mm

High Strength

Reduces water penetration

Excellent flexural properties

Coverage: 15kg/m<sup>2</sup> at 10mm

Pot Life: Approx 1 hour

Suitable for external wall tiling

Application Data	
Mixing Ratio	Mixing Ratio (water only) Approx 100: 16 ~ 19%. (Approx 40kg to 6.5 ~ 7.5 ltrs clean water)
Mixing	Mechanically blend using a paddle in a slow speed electric drill or other mixer for approx 3 – 5 minutes until a smooth consistency is achieved.
Consistency of mix	slump resistance mortar
Application Thickness	5 - 25mm in one coat 25 - 40mm in two coats
Working Time	Approx 1 hour at 25°C
Walk on hardness time	Approx 8 hours @ 20°C
Open Time	30 minutes at 20°C
Coverage	1.5kg/mm/m <sup>2</sup>
Tensile Adhesion Strength 28 days standard conditions	1N/mm <sup>2</sup>
Compressive Strength 28 days standard conditions	15N/mm <sup>2</sup>
Flexural Strength 28 days standard conditions	4.5N/mm <sup>2</sup>
Installation Temperature	- 20°C to 100°C
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	40kg

### Specification

The compound shall be Nicobond Standard Render Mix as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



# Nicobond Waterproof Render Mix

A premium waterproof pre-bagged polymer modified cement based material designed to produce a high quality render coat for interior and exterior walls.



## Description

Formulated using specially graded aggregates, cements and polymers Waterproof Render Mix is capable of being applied at thicknesses up to 25mm in one coat and 40mm in two coats. Waterproof Render Mix can be applied by hand or sprayed on using a machine on to both new and old cementitious substrates including concrete, brick and block work. It can also be used as a masonry mortar for laying most kinds of brick, block and stone.

Complies with EN and HKHA/MTS Standards



Floors



Interior



Protein Free



Underfloor Heating



Pumpable

## Product Characteristics

- Excellent waterproof properties
- Good application control
- Factory controlled consistent results
- Easy to apply and finish
- Improved render strength
- Low VOC Content
- Compatible with Nicobond Tile Adhesives and Grouts

## Product Features

Colour: Grey

Max Thickness: Up to 40mm

High Bond Strength

Reduces water penetration

Excellent flexural properties

Coverage: 15kg/m<sup>2</sup> at 10mm

Pot Life: Approx 1 hour

Suitable for external wall tiling



## Application Data

Mixing Ratio:	Mixing Ratio (water only) Approx 100: 16 ~ 19%. Approx 40kg to 6.5 ~ 7.5 ltrs clean water)
Mixing	Mechanically blend using a paddle in a slow speed electric drill or other mixer for approx 3 - 5 minutes until a smooth consistency is achieved.
Consistency of mix:	slump resistance mortar
Application Thickness:	5 - 25mm in one coat 25 - 40mm in two coats
Working Time:	Approx 1 hour at 25°C
Open Time	30 minutes at 20°C
Coverage:	1.5kg/mm/m <sup>2</sup>
Tensile Adhesion Strength 28 days standard conditions	1N/mm <sup>2</sup>
Compressive Strength 28 days standard conditions	13N/mm <sup>2</sup>
Flexural Strength 28 days standard conditions	4.0N/mm <sup>2</sup>
Installation Temperature	Minimum 5°C - 35 °C
Operating Temperature	20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging:	40kg

## Specification

The compound shall be Nicobond Standard Render Mix as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.

# Nicobond Skim Coat

A premium pre-bagged, polymer modified and water resistant cement based finishing coat which produces a high quality smooth surface on interior walls and ceilings and exterior rendered walls.



## Description

The fine finish achieved with Nicobond Skim Coat provides a perfect surface for painting and to receive other wall coverings. The product can be applied by hand or sprayed on using a machine in layers up to 5mm thick and will bond to both new and old cementitious substrates including concrete, render, brick and lightweight block work.

Complies with BS Standards



Walls



Floors



Interior



Exterior



Water  
Resistant

## Product Characteristics

- Factory controlled consistent results
- Easy to apply and finish
- Reduces water ingress
- Good application control
- Excellent bond strength
- Low VOC Content
- Compatible with Nicobond Tile Adhesives and Grouts

## Product Features

Colour: Grey and White

Max Thickness: Up to 5mm

High Strength

Reduces water penetration

Excellent flexural properties

Coverage: 6kg/m<sup>2</sup> at 5mm

Suitable for internal and external applications

## Application Data

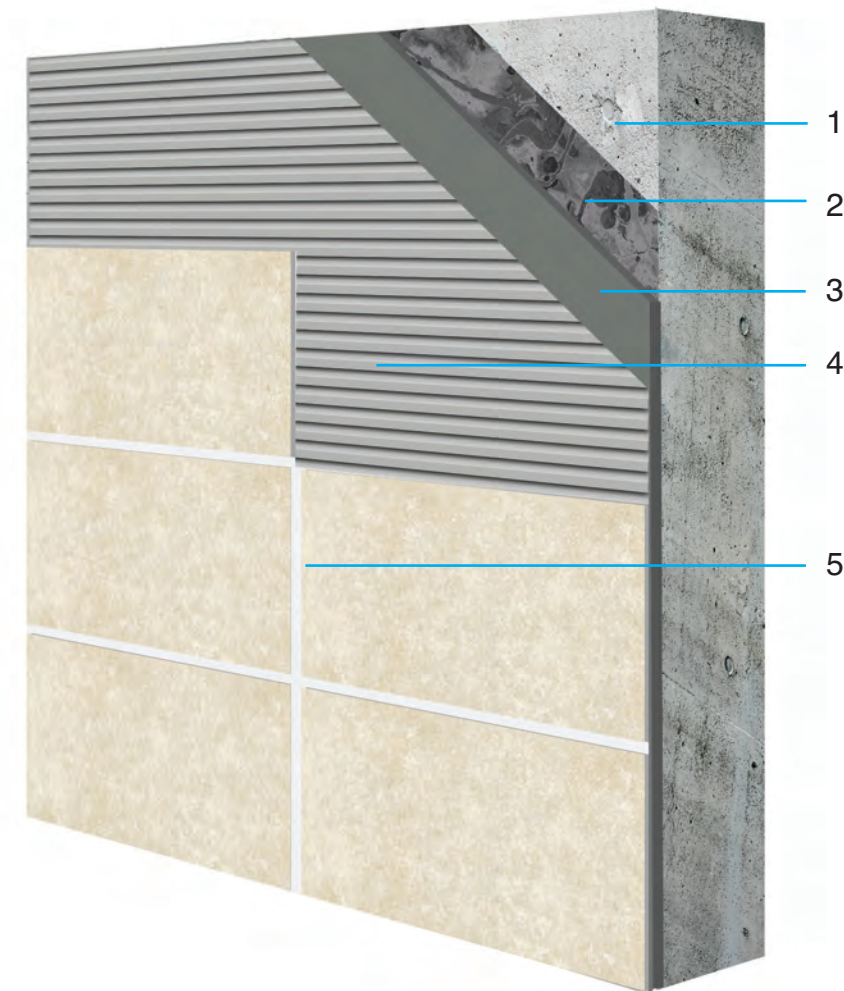
Mixing Ratio:	Mixing Ratio (water only) Approx 100: 32 ~ 37%. (Approx 40kg to 13 ~ 15ltrs clean water)
Mixing:	Mechanically blend using a paddle in a slow speed electric drill or other mixer for approx 3 - 5 minutes until a smooth consistency is achieved. Allow the mortar to stand for 5 minutes, mix again and then use.
Consistency of mix:	slump resistance mortar
Application Thickness:	2 - 5mm per coat
Working Time:	Approx 45 mins at 25°C
Open Time	30 minutes at 20°C
Coating:	Allow 3 - 7 days before applying final finishes.
Coverage:	1.5kg/mm/m <sup>2</sup>
Tensile Adhesion Strength 28 days standard conditions	1.3N/mm <sup>2</sup>
Compressive Strength 28 days standard conditions	11N/mm <sup>2</sup>
Flexural Strength 28 days standard conditions	3N/mm <sup>2</sup>
Operating Temperature	- 20°C to 100°C
Shelf Life	12 months from date of manufacture
Packaging	40kg

## Specification

The compound shall be Nicobond Standard Render Mix as manufactured by Nicholls & Clarke (Hong Kong) Limited, Gloucester Road, Wanchai, Hong Kong and shall be applied strictly in accordance with the Manufacturer's current data sheets and instructions.



## External Wall Tiling Areas



### Installation Instruction

1. Ensure the concrete substrate is fully cured, clean and free from any contaminants such as mold release agents, grease or dust which may prevent adhesion .
2. Apply a Nicobond Render Improver modified spatterdash bond coat approximately 2mm thick to the concrete surface using a tyrolean or spray hopper type machine. Do not trowel apply as this will produce a flat finish and not a rough finish as desired.
3. To improve the adhesion of the sand:cement render add Nicobond Render Improver in the ratio of 5-10 Litres of Render Improver to 100kg of oPC and water to suit.
- 3a. Alternatively use pre bagged Nicobond Standard Render Mix or Nicobond Waterproof Render Mix for the external wall render or plaster.
4. Press the tiles into the recommended adhesive with a slight sliding or twisting action. Large format or tiles with deep grooves on the reverse should be back buttered to ensure solid bedding is achieved.
5. Fill joints between tiles using the recommended grout. In hot and dry conditions, the joints should be mist sprayed with potable water to prevent rapid drying of the grout.

\*Allow at least 2 weeks for sand:cement render to cure before commencing tiling.

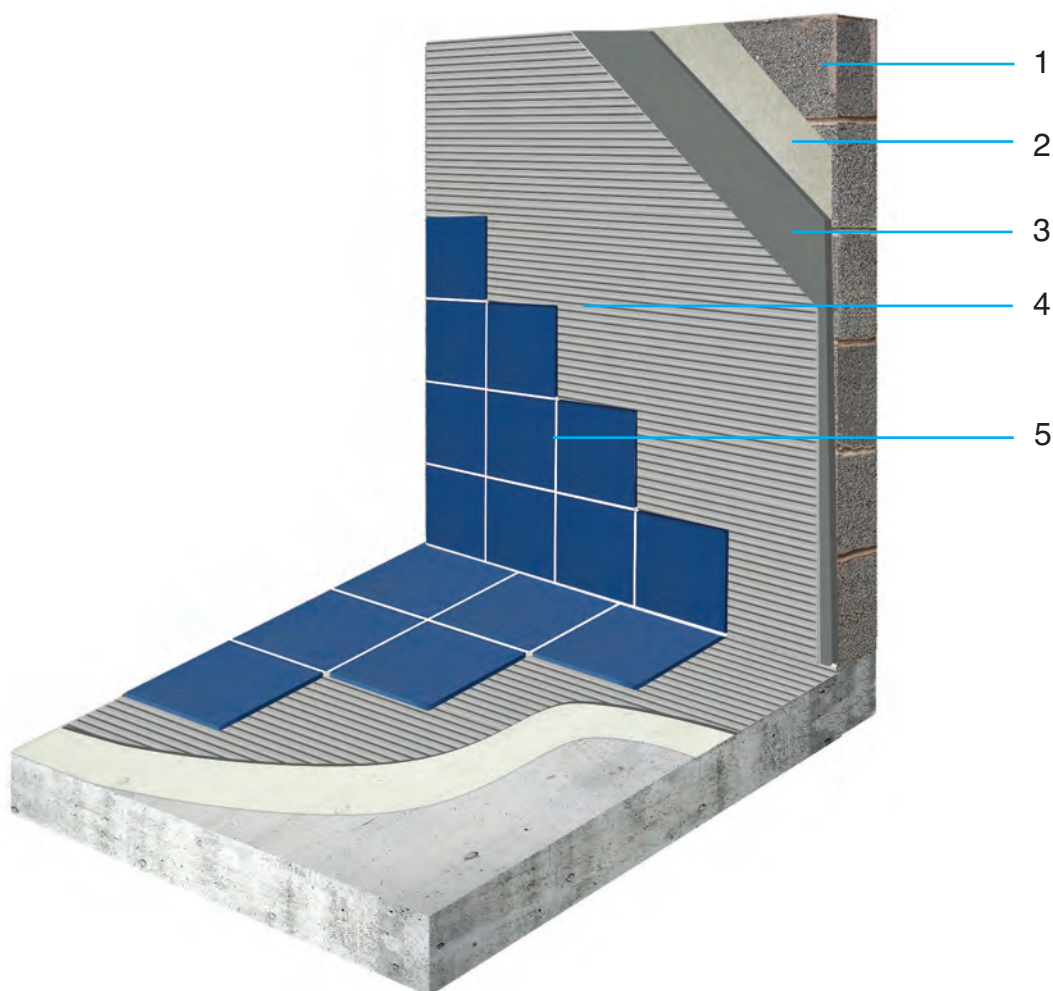
### Recommended Products



### Featured Products



## Internal Wall and Floor Tiling Areas



### Installation Instruction

1. Ensure the concrete or blockwork substrate is fully cured, clean and free from any contaminants such as mold release agents, grease or dust which may prevent adhesion.
2. Apply a Nicobond Render Improver modified spatterdash bond coat approximately 2mm thick to the concrete surface using a tyrolean or spray hopper type machine. Do not trowel apply as this will produce a flat finish and not a rough finish as desired.
3. Use our pre-bagged Nicobond Standard Render Mix or Nicobond Waterproof Render Mix for levelling the wall to create a smooth and even surface which to tiled or painted if preferred.
4. Press the tiles into the recommended adhesive with a slight sliding or twisting action. Large format or tiles with deep grooves on the reverse should be back buttered to ensure solid bedding is achieved.
5. Fill joints between tiles using the recommended grout. Select colour from our extensive range of colour grouts as shown on page 18.

\* Allow at least 6 weeks for concrete floors and concrete blocks to cure and a further 3 weeks for subsequently applied sand:cement screed.

\* Allow at least 2 weeks for sand:cement render to cure before commencing tiling.

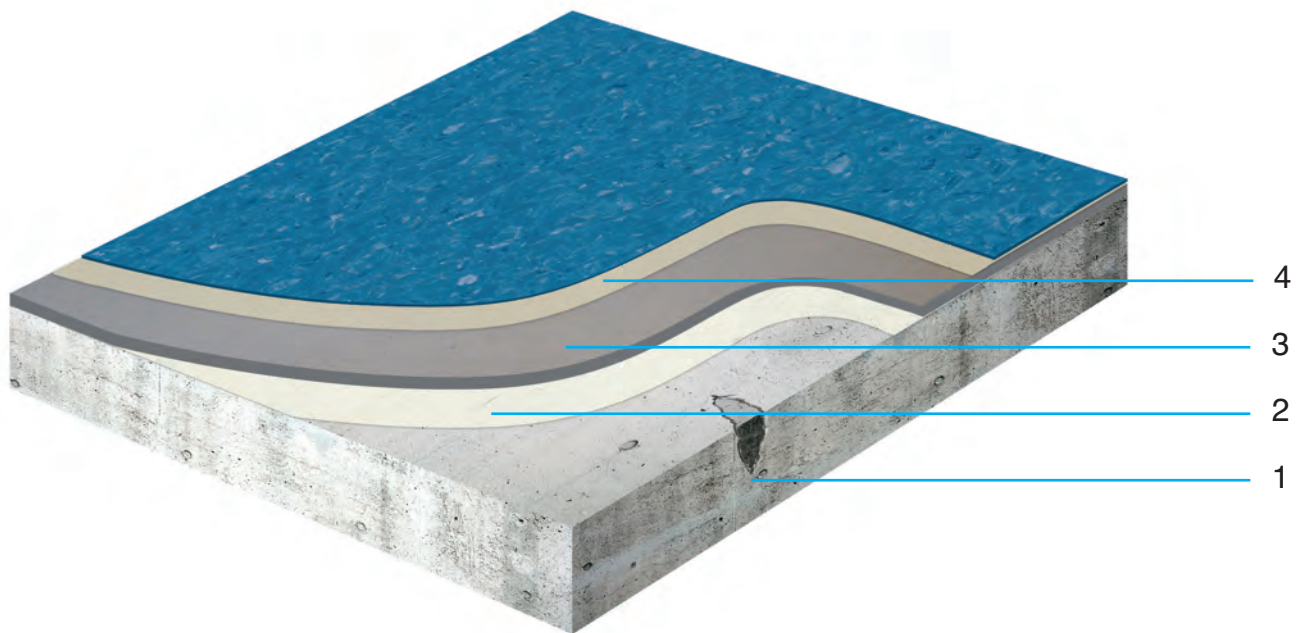
### Recommended Products



### Featured Products



## Floor Coverings onto Concrete/Cement Screed



### Installation Instruction

1. Ensure the concrete base or Cement screed has fully cured and is clean, sound and dry.
2. If the sub-floor is porous, prime with diluted Nicobond Primer in the ratio of 4 volumes of water to 1 volume of Nicobond Primer and allow to dry.
3. Apply Nicobond Self Levelling Underlayment up to a maximum of 20mm in one application according to the instructions.
4. Install floorcovering using the appropriate vinyl adhesive or ceramic / porcelain flooring adhesive.

Suspended floor or direct to ground base must have an effective damp proof membrane installed. It is essential to measure the moisture content of the sub-floor using the appropriate moisture testing equipment. If the sub-floor is dense concrete, prime using neat Nicobond Primer and allow to dry.

### Recommended Products

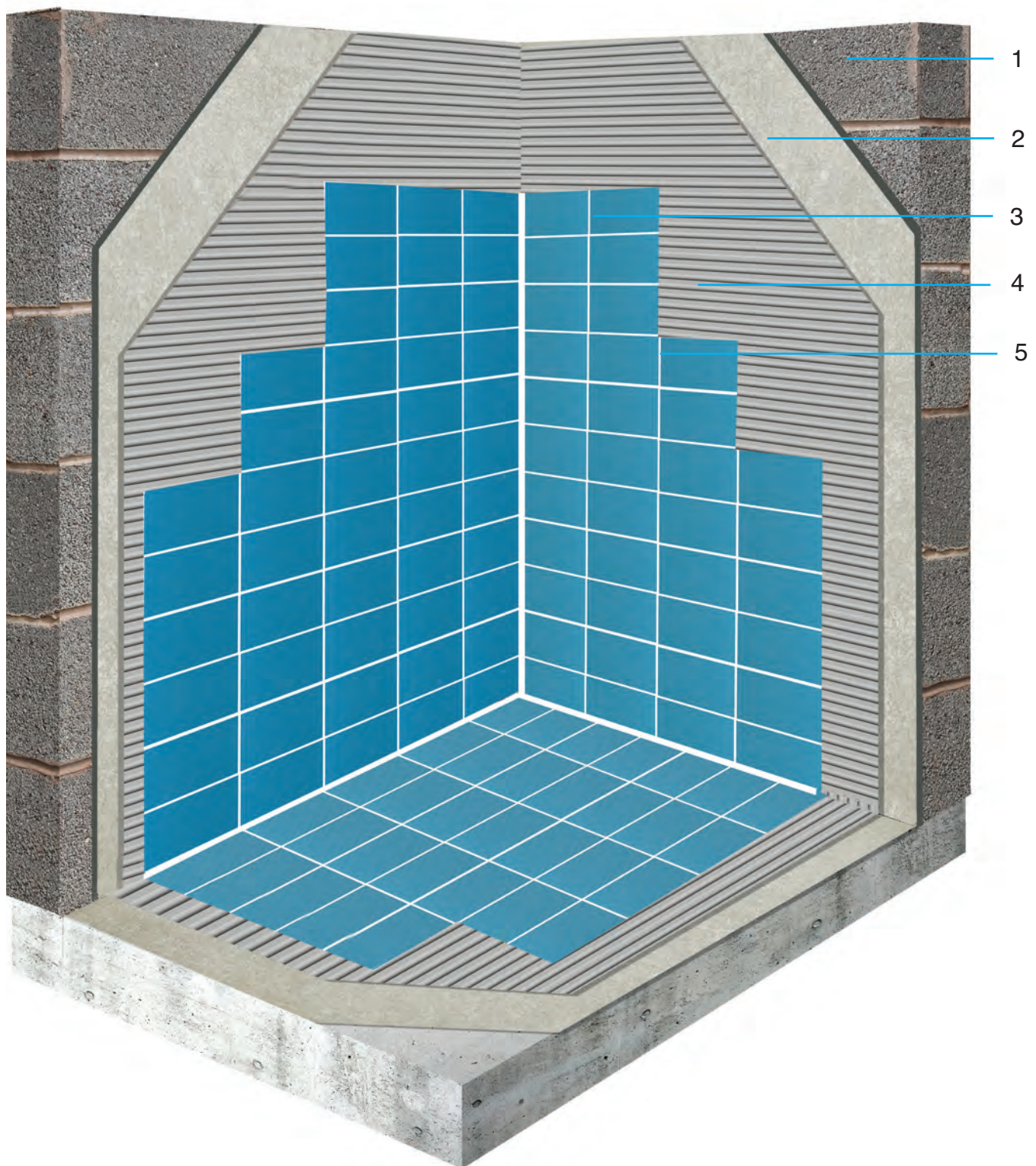


Nicobond  
Self Levelling  
Underlayment



Nicobond  
Primer

## Tiling in Swimming Pools and Fountains



\* Note for Concrete pools the pool water tightness test should be carried out before the application of the render, screed and tile finishes. For pools constructed using reinforced concrete blocks, the render becomes part of the watertight construction and needs to be tested for water tightness accordingly.

\* For leisure pools with wave action features or for pools filled with water of high sulphate content the use of epoxy resin grouts is recommended.

\* On completion Swimming Pools should stand for a period of 3 weeks before pool filling commences at the rate of no more than 750mm every 24 hours. Initial heating of the pool water should also be restricted to a rise in temperature of 0.25° C per hour.

## Installation Instruction

1. Pool construction can take various forms but in all cases ensure for example that any release oils or curing agents have been removed from concrete substrates and that waterproofed sand:cement render and screed is fully cured, flat, clean and suitable for tiling.
2. If the pool requires rendering apply a Nicobond Render Improver modified spatterdash bond coat approximately 2mm thick to the concrete surface using a tyrolean or spray hopper type machine. Do not trowel apply as this will produce a flat finish and not a rough finish as desired.
3. Apply a layer of pre bagged Nicobond Waterproof Render Mix up to 20mm thick onto the spatterdash and allow to dry.
4. To further prevent any water leakage it is recommended to coat the render surface with 2 coats of Nicobond Waterproof Membrane approx 1mm per coat. These to be applied at right angles to each other to ensure complete coverage of the render. Allow 1-2 days for the membrane to cure (mist spray with water if necessary) before commencing tiling.
5. The layout of tiling must take into account stress relieving joints which must be carried through the tiling, render/screed and be provided in accordance with the specification and in line with all day work joints in the concrete.
6. Press the tiles into the recommended adhesive with a slight sliding or twisting action. Tiles with deep grooves on the reverse should be back buttered to ensure solid bedding is achieved.
7. Fill joints between tiles using the recommended grout allowing 3 days after fixing before commencing grouting. Note a further 3 days should elapse before applying sealants to joints.



\*Allow at least 6 weeks for structural concrete floors to cure and further 3 weeks for subsequently applied screed or render.  
 \* Note for Concrete pools the pool water tightness test should be carried out before the application of the render, screed and tile finishes. For pools constructed using reinforced concrete blocks, the render becomes part of the watertight construction and needs to be tested for water tightness accordingly.  
 \* For leisure pools with wave action features or for pools filled with water of high sulphate content the use of epoxy resin grouts is recommended.  
 \* On completion Swimming Pools should stand for a period of 3 weeks before pool filling commences at the rate of no more than 750mm every 24 hours. Initial heating of the pool water should also be restricted to a rise in temperature of 0.25° C per hour.  
 \* Refer to the TTA publication "Design and Construction Process for Swimming Pools" for further advice and information.

## Recommended Products



The recommendations in this publication and on our website [www.ncnicobond.com](http://www.ncnicobond.com) are made in good faith for the guidance of specifiers and users. Clarification of any system employed must be sought from the local distributor or Technical Team before commencing work. Our company pursues a policy of continuous research and development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, since conditions of use and workmanship are outside our control, the advice is given without responsibility on our part. Please always ensure you are working from the current copy of our directory.

Any colour representations in this publication are as near to actual as the printing process will allow. Colours should always be selected from an actual sample prior to use. The same colour name may appear in several product groups, particularly with grouting compounds. Due to the varying nature of the groups this should not be construed as meaning the colour will provide an exact match. All colours should be checked for suitability prior to the commencement of work.

Always use clean mixing equipment and tools, which should be washed in water immediately after use. Residual adhesive or grout must be washed from the face of tiles before it sets, particularly in situations where Nicobond Enhancer 2002 or epoxy products have been used.

When mixing cement based adhesives, grouting compounds and screeds the powder must always be added to the liquid. In the majority of instances on site a quicker, smoother mix will be achieved by using a Nicobond mixing whisk in a slow speed electric drill to blend the powder/liquid elements. It is also particularly appropriate when adding Nicobond Granite Chippings into a previously blended Nicobond screeding compound.

When blending screeding compounds in small quantities, any buckets used must always be thoroughly cleaned between each application. Residual quantities of material may speed up the setting time of subsequent blends.

Coverage figures quoted do not include wastage and are dependent upon the condition of surface and type of tile.

All quoted setting times are given in good faith and established in a controlled laboratory environment at 20°C and 50% relative humidity. This is to ensure consistent results; however adverse weather or site conditions may extend or shorten these times. When fixing porcelain or fully vitrified tiles quoted setting times will be extended except for our epoxy based materials.

Nicobond adhesives and grouts used for tiling are not designed to form, in themselves, a water impermeable membrane.

Consideration must also be given to placement of movement and expansion joints. Since selecting the type and location of joints involves consideration of construction materials, bedding systems, anticipated temperature and humidity conditions, areas concerned and setting out of the tiling, it is the responsibility of the designer to incorporate joint details at the design stage. BS 5385 refers.

Nicobond Silicone Sealant should always be used to seal between surfaces subject to any differential movement such as where tiles abut or between tiled wall & shower tray, also for filling expansion joints in vertical surfaces.

A diverse range of substrates is now presented to the specifier or fixer when considering ceramic wall and floor tiling and similar cladding materials, or the application of screed and rendering.

Tile backer boards are becoming increasingly popular and all such proprietary products or similar substrates must be suitable for the intended purpose and have been fixed strictly in accordance with the manufacturers instructions.

To avoid failure which may follow from the debonding of any original adhesive, it is recommended that any residual quantities be removed to expose approximately 80%, evenly distributed, of the original surface.

Whatever the surface involved it must be fully cured, dimensionally stable, clean, dry, and free from dust, laitance or any other contamination which will reduce adhesion.

Good adhesion to the sub-floor is very important to guarantee the successful application of any thin screed or underlayment. Direct to earth sub-floors must have an effective DPM (seek technical advice). All Nicobond products should be mixed and applied in accordance with the relevant and most current product data sheet.

Nicobond products should not be used to make good screeds or any other substrates that are either structurally weak or have a friable surface.

Do not add additional water to the single part water based products as this will reduce the final performance of the cementitious underlayments.

Do not apply any Nicobond screed product below 5°C or above 25°C; the temperature of the substrate must be carefully considered and included in your temperature calculations before using any cementitious screed product.

Concrete curing agents, admixtures and surface hardeners and the residues of these products can impair adhesion. Where doubt exists or the compatibility is unknown a trial adhesion test should be carried out before the work commences. All surfaces must be clean, sound and free from dust, plaster droppings, bitumen, grease, paint, polish and any water softenable or loosely adhered materials.

Gypsum and anhydrite based screeds also require careful consideration in respect of moisture content, surface finish and chemical compatibility. The screed should be tested for moisture according to BS8203:2001+A1:2009. The recommended methods are Hair/Electronic Hygrometer - The test is non destructive and provides reliable results for a relative humidity of 75%. Carbide Bomb-Destructive but gives a direct measurement of moisture content. Oven Drying - Time consuming but also gives a direct measurement. Note - Electronic metres are not suitable for accurate determination of the moisture content of calcium sulphate screeds.

It is the installers responsibility to take all necessary precautions in terms of taking moisture readings to satisfy themselves that the floor is adequately dry prior to applying Nicobond flooring products. These screeds are commonly applied by pump which leaves a laitance on the surface and it is the flooring contractors responsibility to return after 2 or 3 days to sand this off.

These screeds contain Calcium Sulphate which can be problematical if they come into contact with cement (screed or adhesive) in the presence of moisture. Under these circumstances a chemical reaction can take place. It is necessary to create a barrier utilising a priming system or disconnecting mat (unless Nicobond Gypfix is used for tile fixing) to prevent the formation of Ettringite, an expansive crystalline product which can lead to delamination of the screed or tile bed.

British Standards stipulate minimum periods for the drying or curing of certain 'wet trade' backgrounds. Typical substrates and the relevant information are shown below. More comprehensive data will be found elsewhere in this publication and by reference to the appropriate standards.

As a general guide the following should be noted and acted upon accordingly.

- "New plasterwork should have been completed at least 4 weeks previously and should be dry throughout. Tiles should only be fixed to the finish coat, never direct to the backing coat. Plasterwork is unsuitable as a background for tiling in wet areas." (BS 5385: Part 1: 2009 Section 6 Table 3d).
- "New concrete, concrete blocks and bricks and calcium silicate bricks should be left for at least 6 weeks before rendering or direct fixing is commenced. Cement: sand mortar rendering should be left for 2 weeks before tiling is applied." (BS 5385: Part 1: 2009 Section 6 Table 3a).
- "At least 6 weeks should be allowed for structural floors to undergo initial drying shrinkage. If a screed is subsequently to be applied the screed should be left for at least a further 3 weeks." (BS 5385: Part 3: 2014 Section four 4.3).
- "Timber is not considered to be a suitable base for floor tiling in wet, frequently damp, or high humidity areas, unless appropriate precautions are taken (BS 5385-3). Noggins might be required between joists in order to achieve the required rigidity. The limit of deflection normally permitted for domestic timber floors (see BS 5268-2) might be too great to avoid damage to tiling systems."
- "As the floor coverings, adhesives and smoothing compounds may be adversely affected by moisture, sub-floors should be so constructed as to protect the floor covering installation from moisture or water vapour from the ground" (see BS 8203: 2001: 3.1.1)
- For additional information and guidance on tiling to Calcium Sulfate based screeds refer to The Tile Association publication "Tiling to Calcium Sulfate Screeds."

For adhesives or screeds to perform according to specification it is important that the porosity of such surfaces is reduced to acceptable levels. Highly porous cementitious based surfaces such as aerated concrete or aerated blocks must be sealed using system 2 below, as a minimum. Should any doubt remain concerning porosity then a slurry priming coat according to system 1 should be applied and allowed to set before further work proceeds.

Nicobond recommends three basic procedures for priming or sealing & reference to the following systems will appear throughout this section.

System 1 - Slurry Priming	System 2 - Priming/Sealing Exterior	System 3 - Priming/Sealing Interior
<p>A most effective primer for all cement based adhesives &amp; screeds, internally and externally, is to brush tightly onto the surface a thin even layer of a well stirred mixture of:</p> <p>1 volume water 1 volume Nicobond Primer 1 volume of Nicobond cement based product that will then be used.</p> <p>The layer should normally be allowed to set for a few hours before work progresses.</p> <p>Coverage: Approximately 10 - 15m<sup>2</sup> per litre of Nicobond Primer.</p>	<p>For the simple priming/sealing of all cementitious and other surfaces particularly for exterior work, brush into the surface a thin even layer of:</p> <p>4 volumes water 1 volume Nicobond Primer mixed by thorough stirring.</p> <p>The layer should be allowed to dry slightly before applying Nicobond smoothing compounds or adhesives.</p> <p>Coverage: Approximately 30m<sup>2</sup> per litre of Nicobond Primer.</p>	<p>For the simple priming/sealing of most interior surfaces brush apply a thin even layer of a blend of:</p> <p>4 volumes water 1 volume Nicobond Universal Bonding Agent and Sealer mixed by thorough stirring.</p> <p>Allow the layer to thoroughly dry before continuing.</p> <p>Coverage: Approximately 25 - 50m<sup>2</sup> per kg of Nicobond Universal Bonding Agent and Sealer.</p>

Application Methods for Fixing Ceramic Tiles, Mosaic and Natural Stones

Nicobond Enhancer 2002

Our unique liquid additive is suitable for use with a number of our cementitious adhesives and grouts within the Nicobond range. Detailed mixing ratios are contained within the data pages for appropriate products. However the following table for the number of litres required per 20 kilo bag may be found useful as a quick reference.

Product	Water	Enhancer
CT300 Ceramic Tile Adhesive	3.6ltrs	1.6ltrs
Floor and Wall Adhesive	3.4 ltrs	1.8 ltrs
Tilers Grout	3.5 ltrs	2.0ltrs
Pointing Mortar	3.0 lits	2.0ltrs

## Calculating Grout Requirements

A useful guide to calculating the requirements of cementitious grouts for any tiling installation is as follows:

An example of this would be as follows:  
(330mm + 250mm) x 8 x 3

$$\frac{\quad}{330 \times 250\text{mm}} \times 1.8$$

Resulting Coverage = 0.30kg/m<sup>2</sup>

Multiplication Factor x MF	
Nicobond Tilers Grout	1.8
Nicobond Pointing Mortar	1.8
Nicobond Flexible Grout Plus	1.7
Nicobond Truepoxy	1.6

Coverage Guide	Joint Width	Coverage
Wall Tiles		
15 x 15 x 0.6cm	2mm joint	0.3kg/m <sup>2</sup>
20 x 10 x 0.6cm	2mm joint	0.2kg/m <sup>2</sup>
20 x 30 x 0.6cm	2mm joint	0.2kg/m <sup>2</sup>
60 x 30 x 0.10cm	3mm joint	0.3 kg/m <sup>2</sup>
Mosaic Sheet 25 x 25mm Tessara		
30 x 30 x 0.4cm	1.5mm joint	0.96kg/m <sup>2</sup>
Floor Tiles		
30 x 30 x 0.8cm	4mm joint	0.43 kg/m <sup>2</sup>
60 x 60 x 0.8cm	4mm joint	0.21 kg/m <sup>2</sup>

## Adhesive Application Techniques

### Thin Bed Ceramic Wall Tile Adhesives

Spread the prepared adhesive with the straight edge of a Nicobond Notched Trowel to a maximum depth of 3mm. Reverse the trowel and comb the adhesive with the notched edge, ensuring that continuous horizontal ribs of adhesive are formed.

### Solid Bed Ceramic Wall Tile Adhesives

Working up to the maximum bed thickness specified for the product spread the prepared adhesive with the straight edge of the Nicobond Notched Trowel. Reverse the trowel and lightly comb the surface of the adhesive with the notched edge ensuring that continuous, horizontal ribs of adhesive are formed. In areas of high moisture or for exterior work, the solid bed fixing method, i.e. no voids behind the tiles, must be used.

### Solid Bed Ceramic Floor Tile Adhesives

The mixed adhesive should be applied with the straight edge of the Nicobond Notched Trowel up to the maximum depth specified for the product. Lightly comb over the surface of the adhesive using the notched edge of the trowel. Do not press trowel through the full depth of adhesive. Where tiles have deep keys or studs, spread the adhesive onto the back of the tile to fill the keys or spaces between the studs.

## Bonding Of The Tiles

Fix dry tiles immediately pressing them firmly into position with a slight sliding or twisting action. Where appropriate, the adhesive can be spread both onto the surface as described above, and buttered on the backs of the tiles. Which ever method is used, the tiles should be firmly tamped or pressed home to ensure solid bedding without voids (particularly on flooring installations). Floors should not be opened to any traffic until the adhesive has hardened. From time to time remove a tile to check that full contact has been made with the adhesive bed. Exterior installations must be protected from rain and frost until the adhesive has fully set. Where fixing is carried out in hot conditions, the finished tiling should be protected from direct sunlight to avoid premature drying. Adjustments to tiling can usually be made for between 10 and 20mins after fixing, refer to the Nicobond Tiling Products Directory for individual product information.

### Marble, Granite or Natural Stones (Slabs and Tiles)

Ensure that any dust is removed from the reverse of the slab. Spread mixed adhesive evenly onto the slab up to a maximum thickness of 12mm and to within 5cm of the edge. Press the slab firmly onto the surface with a twisting or sliding action. Remove any adhesive from slab face before it hardens. Slabs being fixed in a vertical position may require supporting during the initial setting period.

Building Regulations may also require mechanical fixing.

## Grouting Notes

Ensure that the adhesive has set, that all joints are dry, clean and free from all loose materials. Check that the grout selected is correct in terms of joint width and depth and relevant to the service conditions. Do not grout more than 1 - 2m<sup>2</sup> at a time.

Tiles with a soft glaze or metallic finish such as silver or 18 carat gold are prone to scratching; care must be taken in the selection of the grout to ensure it is not too abrasive for the tile chosen. If in doubt always carry out a small trial prior to grouting

Tiles which have been fixed to impervious surfaces such as concrete, glazed brick, existing glazed tiles or oil based paint should not be grouted for several days after completion of fixing, this will allow the moisture from the adhesive to dry out through the joints.

Grouted swimming pools should remain empty for 3 weeks before being filled with 'balanced' water. Pools may be filled with salt water if desired, except where the sulphate content is very high.

Using the Nicobond Grouter or Nicobond Float Grouter the grout must be worked well into the tile or mosaic joints ensuring that they are completely filled. Immediately remove any surplus grout from the tiled surface. Before the grout sets wipe the complete area with a clean,

damp cloth or sponge, avoiding products e.g. highly pigmented sponges, which may cause the grout line to discolour. Tile joints should then be finished off to the desired effect. Final polishing of the tiles may be carried out with a clean dry cloth once the film of grout remaining on the surface has dried. Allow grout to fully dry before bringing into use.

When re-grouting an existing installation ensure that the old grout has been thoroughly raked out of the joints, taking care not to damage the glazed edges of the tiles. Excessive use of water when mixing or during application may cause shade variation, efflorescence, pin holing or dusting of the grout and must be avoided.

If using acid or chemical systems to clean grouted installations grouted with cementitious products it is essential to pre-soak the grout lines with clean water. Clean water must also be used to thoroughly wash off all remaining traces of the cleaning system.

With all cementitious grouting compounds it is important to follow the recommended ratio given for mixing powder to water and to employ the same technique when finishing the grout line. Should water ratios vary excessively this can effect the final colour, as will different methods of finishing off.

For large floor areas, rotary floor scrubbing machines fitted with special squeeze blades can be used to rapidly consolidate grout into the joints and assist in the cleaning process.

## Coloured Grouting

Before any coloured grout is applied we recommend that a trial be carried out on a sample tile to ensure that staining of the tile surface or tile edges does not occur since N&C Building Products Limited will not accept responsibility for staining. All the ready blended colours of our cementitious grouts are intermixable within the product group to extend the colour range. High strength pigments are used in the manufacture of all Nicobond Coloured Grouts, however care should be taken in the selection and application of cleaning and maintenance chemicals as otherwise, some discolouration may occur. Waterborne chemicals in swimming pools may cause a bleaching effect and we do not recommend the use of coloured grout, other than epoxy based material. Aggressive or unbalanced water will have a detrimental effect on any cementitious grouts and in extreme cases, any epoxy product.

## Epoxy Grout

When preparing epoxy adhesives or grouts full instructions on the packaging should be followed. It is important that any liquid components which may contain pigment are thoroughly stirred to ensure good distribution. It is also essential that all components are mixed as a complete kit; do not attempt to make up part mixes as these may not subsequently cure. Do not grout more than ½ - 1m<sup>2</sup> at a time with epoxies.

## Storage

Nicobond products must be stored clear of the ground and in dry conditions, protect from frost, direct sunlight, extremes of heat & humidity.

## Material Safety Data Sheets

The relevant Material Safety Data Sheet can be obtained from our website [www.nichollsandclarke.com](http://www.nichollsandclarke.com) or directly from N&C Building Products Ltd at the address below.

## Manufacturer's Warranty

All Nicobond adhesives, grouts and screeds are covered by our lifetime manufacturer's warranty. If our products are proven to be defective by reason only of manufacturing workmanship we will, at our discretion, provide replacement product free of charge.

Faulty installation or non compliance with the current BS/EN Standard or The Tile Association recommendations/papers relating to substrates, the application of material and inappropriate use are excluded from this warranty and our liability is limited to the cost of replacement only on production of purchase invoice or receipt.

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Equality Act Compliant Solutions | Multi-User Kitchens

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## The Secret Behind the Perfect Wetroom...

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- Ceramic & Porcelain Tiles
- Sanitaryware
- Floor Formers
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- Linear & Round Wastes
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- Taps and Mixers
- Trims & Accessories
- Bathroom Furniture
- Tiling Systems
- Tile Backer Board
- Tileable Pipe Covers
- Accessible Bathrooms
- Mirrors & Cabinets

**N&C**

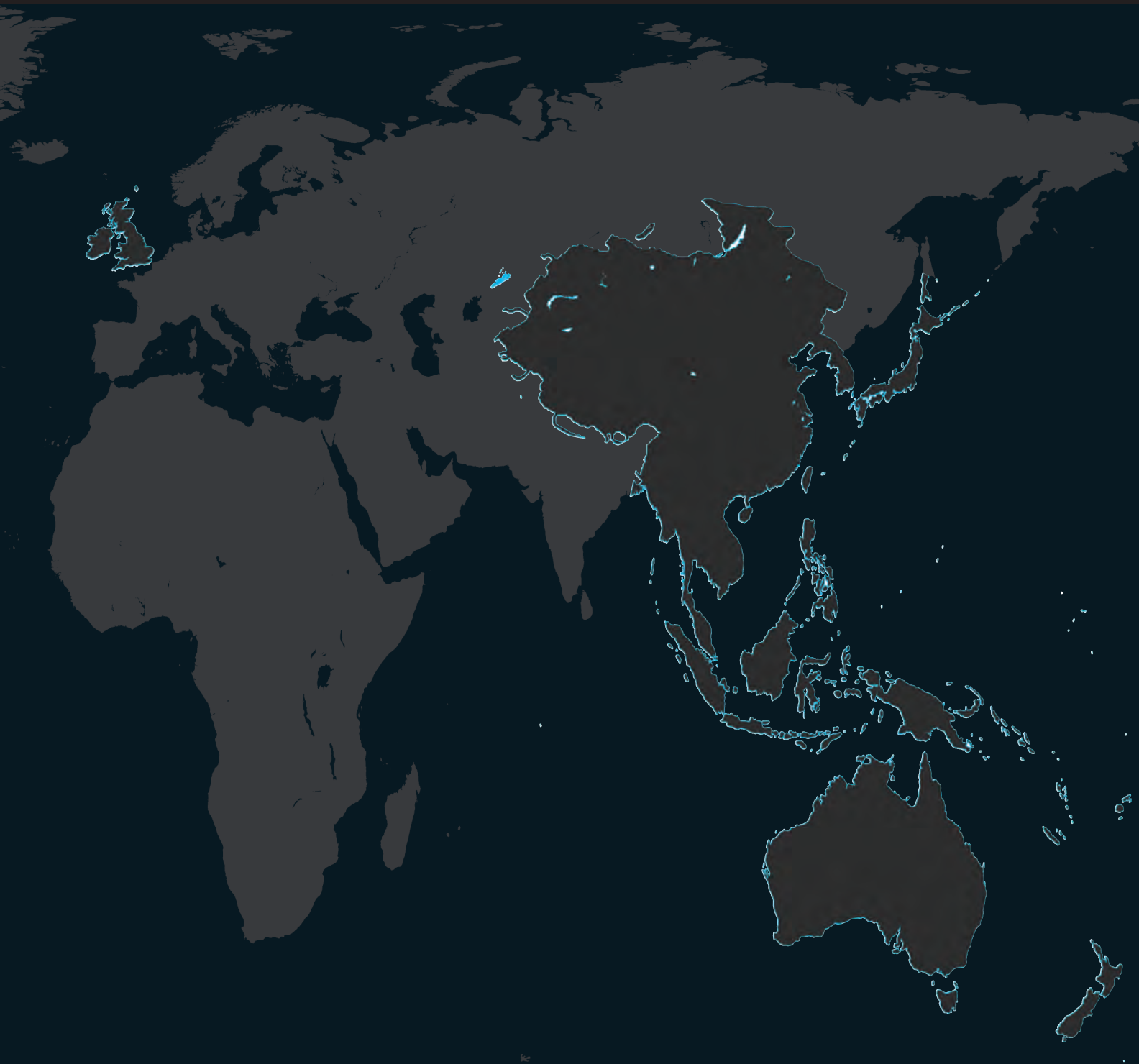
Leading wet room supplier to the housebuilding industry

## Document MPack Specialists

- BS8300 compliant (updated February 2009)
- Highest quality materials used throughout
- Complete co-ordination between accessories
- Handed wash basin
- Elegant raised height pan
- Luxury padded backrest
- Ergonomic designed toilet seat
- Easy operation dual flush lever 6/4ltr
- Screw down lid on cistern
- TMV3 thermostatic basin mixer incorporating environmental water saving spray action
- ABS grab rails ensures no rotting, rust or corrosion



**N&C**  
Phlexicare



Nicholls & Clarke (Hong Kong) Limited  
2410 Fortis Tower 77 - 79  
Gloucester Road, Wanchai, Hong Kong  
[www.ncnicobond.com](http://www.ncnicobond.com)  
Code: Y00000