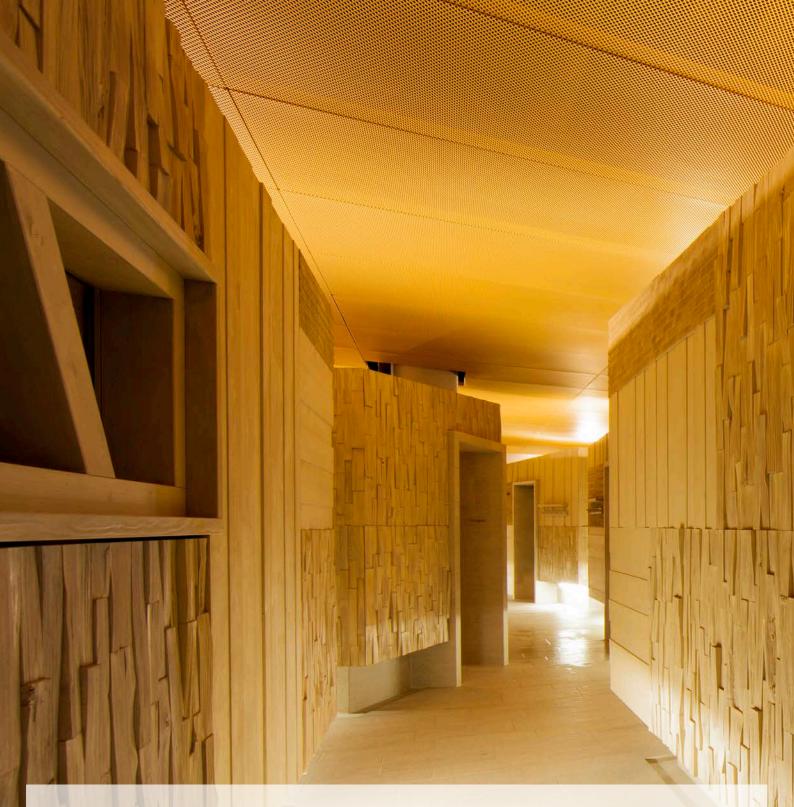


# TILING SYSTEM SOLUTIONS

TILING TO THE HIGHEST QUALITY



**BUILDING TRUST** 



### TILING TO THE HIGHEST QUALITY

From decorative tiled surfaces to highly functional tiled wall and floor finishes, tiling is one of the most popular surface finishing techniques that are used to enhance the appearance and functionality of all types of buildings and facilities. It is always crucial to select the right tile and the right tile installation system for each different area of each specific project. This should include the correct surface preparation, waterproofing and joint sealing solutions for each area and tile in order to ensure the right quality and durability. Sika has developed a comprehensive range of tile adhesives, tile grouts and useful ancillary products that are designed for use as integrated systems to achieve the optimum results.

## CONTENTS

05	Tiling with Large-Format Ceramic
07	Tiling with Porcelain Tiles
09	Tiling Drywalls in Dry Areas
11	Tiling for Wet Rooms
13	Tiling with Marble, Granite & Other Natural Stone Tiles
15	Tiling on Facades
17	Tiling in and around Swimming Pools
18	Tile Adhesives
19	Tile Grouts
20	Ancillary Products
22	Standards for tile adhesives & grouts
23	BRANZ Appraisals

Larger ceramic and natural stone tiles create a seamless and contemporary look. But laying larger tiles successfully for the long-term, requires not only good skills but also advanced solutions that guarantee maximum reliability and performance.

### TILING WITH LARGE-FORMAT CERAMIC

Sika tile installation systems provide: a flat surface that is achieved with levelling technology designed to avoid separation and imperfections, together with an excellent finish. This is easily achieved by the use of a new generation, high performance, highly deformable, cementitious adhesive with a high polymer content, which is applied in double spreading. Then a flexible tile grout with low modulus and excellent mechanical strengths and high abrasion resistance is used, together with a high performance sealant for all potentially moving joints and connections.



#### SURFACE PREPARATION

**SikaScreed®-1** Premix product for screeds

SikaCeram T-Latex Synthetic rubber latex

Sikafloor Level Pro High performance self-levelling compound

**Sikafloor-01 Primer** Universal dispersion primer

#### TILE ADHESIVE

SikaCeram®-255 StarFlex LD Cement-based, deformable, low dust

Prohesive Promaxset Plus (NZ) Cement based polymer fortified flexible adhesive

#### **TILE GROUT**

**SikaCeram® CleanGrout** Cementitious floor and wall tile grout

**SikaCeram® StarGrout** Epoxy-based tile grout for tile joints

#### SEALANT

**Sikasil® Color** Universal tile silicone

Porcelain tiles are highly durable ceramic tiles, as they are produced under higher pressures and temperatures to be extremely hard and non-absorbent. Therefore they are frequently selected by demanding project owners who value performance and reliability, both in residential and public areas.

### TILING WITH PORCELAIN TILES

For these areas and exposure conditions it is necessary to use a tile installation system that is also able to meet these requirements and accommodate the high stresses. This means providing a suitable substrate with high compressive and tensile strengths. Sika installation systems achieve this with a new generation of polymer modified tile adhesives that are specifically designed for bonding non-absorbent materials. Then finishing is with a flexible tile grout that also has a good mechanical strengths and high abrasion resistance. A high performance polyurethane based elastic sealant is used for any movement, isolation or connection joints that must be brought through the system.



#### SURFACE PREPARATION

**SikaScreed®-1** Premix product for screeds

**SikaCeram T-Latex** Synthetic rubber latex

Sikafloor Level Pro High performance self-levelling compound

**Sikafloor-01 Primer** Universal dispersion primer

#### TILE ADHESIVE

**SikaCeram®-255 StarFlex LD** Cement-based, deformable, low dust

Prohesive Promaxset Plus (NZ) Cement based polymer fortified flexible adhesive

**Sikatile-405 Lite** A flexible, premium, sand and silica free, tile and stone adhesive with Lightweight glass technology for a smooth, easy to trowel application

#### TILE GROUT

**SikaCeram® CleanGrout** Cementitious floor and wall tile grout

SikaCeram<sup>®</sup> StarGrout Epoxy-based tile grout for tile joints

#### SEALANT

Sikasil<sup>®</sup> Color Universal tile silicone

#### Sikaflex®-11 FC Purfrom

Multipurpose fast curing polyurethane elastic adhesive and joint sealant



Drywall construction techniques and materials are the most widely used system to form the walls and ceilings in medical, hospitality, educational and urban housing developments today. There is also an increasing tendency to use 'dry' floor boarding systems, which are also considered to be a quick and easy underlayment for tiles.

# TILING DRYWALLS IN DRY AREAS

Sika provides a full system for the secure installation of tiles on these substrates used traditionally now in dry areas, not regularly exposed to moisture. Firstly a primer is applied to seal the surface and prevent any gypsum contact with cement; then flexible dispersion on vertical application and cementitious tile adhesives with a high polymer content on horizontal application; Then finishing is with a flexible tile grout that also has a good mechanical strengths and high abrasion resistance. Finally the system is completed with a high performance, antifungal, elastomeric movement and connection joint sealant.



#### SURFACE PREPARATION

#### Sika Primer-11 W +

Universal substrate primer for tile adhesives or levelling compounds

**Sikafloor®-01 Primer** Universal dispersion primer

#### TILE ADHESIVE (WALL)

**SikaCeram®-255 StarFlex LD** Cement-based, deformable, low dust

**Prohesive Promaxset Plus (NZ)** Cement based polymer fortified flexible adhesive

#### Sikatile-405 Lite

A flexible, premium, sand and silica free, tile and stone adhesive with Lightweight glass technology for a smooth, easy to trowel application

#### **3** TILE ADHESIVE (FLOOR AND/OR WALL)

SikaCeram<sup>®</sup>-255 StarFlex LD Cement-based, deformable, low dust

Prohesive Promaxset Plus (NZ)

#### Cement based polymer fortified flexible adhesive

#### Sikatile-405 Lite

A flexible, premium, sand and silica free, tile and stone adhesive with Lightweight glass technology for a smooth, easy to trowel application

#### **TILE GROUT**

**SikaCeram® CleanGrout** Cementitious floor and wall tile grout

SikaCeram<sup>®</sup> StarGrout Epoxy-based tile grout for tile joints

#### **S** SEALANT

**Sikasil® Color** Universal tile silicone



Wet areas are usually high use areas that are frequently wet due to their function or washing and cleaning procedures e.g. shower facilities, bathrooms, laundries and kitchens. The most important thing for wet room projects is to ensure that the area is waterproof to prevent ingress and subsequent water damage, deterioration and microbiological growth within the building fabric.

## TILING FOR WET ROOMS

Sika provides a complete integrated system to fulfill the very demanding requirements of these areas. Firstly the surfaces are made waterproof, with a is highly flexible and fiber-reinforced. Then a flexible cementitious adhesive with a high polymer content is used for the tile installation, which is followed by a special highly deformable, waterproof, two- component, epoxy tile grout. This is designed to provide high chemical and abrasion resistance in the selected color shade. Finally, the system is completed with a high performance, antifungal, movement and connection joint sealant.



#### LIQUID APPLIED MEMBRANE

**SikaScreed®-1** Premix product for screeds

**SikaCeram T-Latex** Synthetic rubber latex

Sikafloor Level Pro High performance self-levelling compound

**Sikafloor-01 Primer** Universal dispersion primer

#### WATERPROOFING MORTAR

Sikalastic<sup>®</sup>-220 W Liquid applied waterproofing membrane

Sikalastic®-152 Cementitious flexible fibre-reinforced mortar

Sika<sup>®</sup> Tite Undertile Styrene Butadiene Rubber latex modified waterproofing membrane

#### WATERPROOFING TAPE

SikaSeal® Tape F Sealing tape for crack bridging

**SikaSeal® Tape B** Self-adhesive sealing tape for compound seal

#### TILE ADHESIVE

Δ

**SikaCeram®-255 StarFlex LD** Cement-based, deformable, low dust

**Prohesive Promaxset Plus (NZ)** Cement based polymer fortified flexible adhesive

#### **5** TILE GROUT

SikaCeram<sup>®</sup> CleanGrout Cementitious floor and wall tile grout

**SikaCeram® StarGrout** Epoxy-based tile grout for tile joints

6 SEALANT

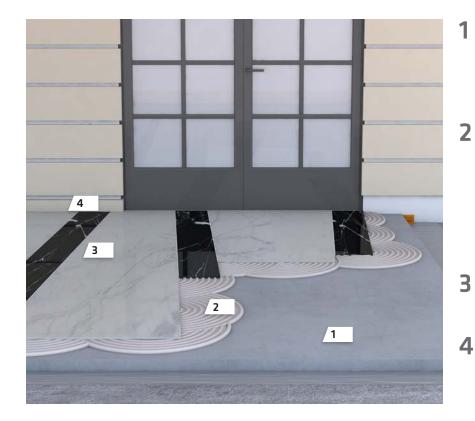
**Sikasil® Color** Universal tile silicone

Natural stone tiles are one of the most timeless and elegant finishing materials that never goes out of style. Sika provides a complete installation system for marble, granite and other natural stone tiles, which is not sensitive to moisture.

# TILING WITH MARBLE, GRANITE & OTHER NATURAL STONE TILES

This Sika system includes subfloor screeds made with a hydraulic binder that ensures high compressive and tensile strengths, plus rapid hardening with very low shrinkage, thus allowing installation of the tiles after only 24 – 48 hours. For these natural stone materials, the Sika system uses a new generation of flexible, cementitious tile adhesive, with a high

polymer content and low modulus that minimizes stress transfer. Finally, flexible, epoxy resin based grouts with high mechanical strengths and abrasion resistance are used, together with permanently elastic high performance non staining sealant for any moving joints and connections.



#### SURFACE PREPARATION

**SikaScreed®-1** Premix product for screeds

SikaCeram T-Latex Synthetic rubber latex

#### TILE ADHESIVE

**Eco Systems Opti-Cure** Poymer fortified white cement based tile & stone adhesive

SikaCeram®-255 StarFlex LD Cement-based, deformable, low dust

**Prohesive Promaxset Plus (NZ)** Cement based polymer fortified flexible adhesive

#### TILE GROUT

**SikaCeram® CleanGrout** Cementitious floor and wall tile grout

SEALANT

**Sikasil® Color** Universal tile silicone

**Sikaflex®-11 FC Purform** Multipurpose fast curing polyurethane elastic adhesive and joint sealant

Sikaflex<sup>®</sup> AT-Facade High-performance movement joint sealant

Installing tiles on building facades has long been considered as challenging and risky work. However, Sika has developed flexible tile adhesives and grouts that are capable of withstanding exposure to these demanding requirements, including accommodating the extreme weather conditions and the thermal movement of different facade materials.

COTOTATION OF

# TILING ON FACADES

Sika's cementitious tile adhesive for external facade tiling has a high polymer content to ensure accommodation of the thermal movement due to the wide and rapid temperature variations. Sika's special cement based tile grout for facades also has considerable flexibility, abrasion resistance and high mechanical strengths. Finally, the joints and perimeter terminations are sealed with a high performance, elastic polyurethane based sealant, which is designed for joints that must accommodate high movement and also maintain good aesthetic appearance.



#### SURFACE PREPARATION

**Sika MonoTop® range** Complete range of mortars

#### TILE ADHESIVE

**SikaCeram®-255 StarFlex LD** Cement-based, deformable, low dust

#### SikaTile-405 Lite

A flexible, premium, sand and silica free, tile and stone adhesive with Lightweight glass technology for a smooth, easy to trowel application

#### TILE GROUT

**SikaCeram® CleanGrout** Cementitious floor and wall tile grout

**SikaCeram® StarGrout** Epoxy-based tile grout for tile joints

#### SEALANT

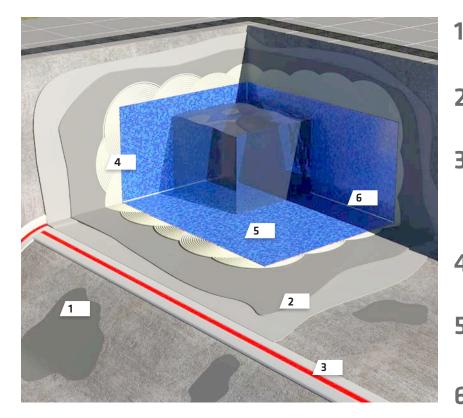
Sikaflex<sup>®</sup> AT-Facade High-performance movement joint sealant

The installation of tiles in and around swimming pools has always been a critical application and Sika has extensive expertise and experience of providing the ideal solution with a complete system.

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### TILING IN AND AROUND SWIMMING POOLS

Firstly the substrate is prepared, made good and levelled with an appropriate cementitious repair mortar / surface smoothing mortar. Then Sika's polymer modified, fiber-reinforced, cementitious waterproofing mortar is applied in two layers, which ensures durable, long term waterproofing of the area. A special low modulus and highly flexible, cement based tile adhesive is then used, which is able to withstand thermal shock on the substrate, as well as continuous immersion in an alkaline environment. An epoxy resin based grout with high mechanical and chemical resistance is applied, and finally any moving joints and connections are sealed with a high quality, flexible and chemically resistant, neutral curing silicone joint sealant.



SURFACE PREPARATION

**Sika MonoTop® range** Complete range of mortars

- 2 WATERPROOFING MORTAR Sikalastic<sup>®</sup>-152 Liquid applied waterproofing membrane
- **3** WATERPROOFING TAPE

**Sika® SealTape F** Sealing tape for crack bridging

**Sika® Fibre Mesh-1000** Glass fibre mesh fabric

#### **4** TILE ADHESIVE

**SikaCeram®-255 StarFlex LD** Cement-based, deformable, low dust

5 TILE GROUT SikaCeram<sup>®</sup> StarGrout Epoxy-based tile grout for tile joints

#### 6 SEALANT

Sikasil<sup>®</sup> Pool Neutral-curing silicone sealant

# TILE ADHESIVES

	SilaCeram SilaCeram Safe D Safe D	Silarile'40s Silarile'40s Dis Silarile'40s Dis Silarile'40s Of Silarile' Of Silar	PROPERTY OF THE DESCRIPTION OF THE OF	
NAME	SikaCeram®-255	SikaTile <sup>®</sup> -405 Lite	Prohesive Promaxset Plus	Eco Systems Opti-Cure
	StarFlex LD Low dust emissions, highly deformable adhesive; C2TE S1 classified according to EN 12004.	A flexible, premium, sand and silica free, tile and stone adhesive with Lightweight glass technology for a smooth, easy to trowel application	Cement based polymer fortfied flexible adhesive.	Poymer fortified white cement based tile & stone adhesive.
MAIN ADVANTAGES	<ul> <li>Low dust emissions</li> <li>Deformable</li> <li>No vertical slip</li> <li>Extended open time</li> <li>Frost proof</li> <li>Applicable up to 15 mm thicknesses</li> </ul>	<ul> <li>Suitable for residential &amp; commercial applications</li> <li>Thin and thick-bed tiling applications up to 10mm thick</li> <li>Under-tile heating systems</li> <li>Sika approved acoustic reduction underlayments</li> </ul>	<ul><li>applications</li><li>Flexible S1 performance</li><li>Economical</li></ul>	<ul> <li>C2TFS1 High performance flexible adhesive</li> <li>Rapid setting for fast installations</li> <li>Single Part, mix only with water</li> <li>Low VOC</li> </ul>
USES	Suitable for: All types of ceramic tiles Thin, dense porcelain slabs Marble and other porous natural stone Can be used: Interior and exterior On floors and walls Over underfloor heating On old tiles (interior) Perfect for: Swimming pools, industri- and heavily trafficked floors, exposed facades etc.	<ul> <li>Suitable for:</li> <li>Concrete</li> <li>Compressed cement boards*</li> <li>Cement-based screeds and renders</li> <li>Ceramic tile underlay / Fibre cement sheeting*</li> <li>Existing ceramic tiles (primed with SikaTile-015 NPP)</li> <li>Autoclaved aerated concrete / AAC</li> </ul>	<ul> <li>Suitable for:</li> <li>Ceramic, Pocelain, Glass Mosaic &amp; Mosaic</li> <li>Thin Brick Veneer and non-moisture sensitive</li> <li>Natural Stone / Terrazzo or man-made stone</li> <li>Perfect for:</li> <li>Swimming pools</li> </ul>	<ul> <li>Eco Systems Opti-Cure can be used for thin-bed tile and stone installations and medium bed up to 10mm bed thickness.</li> <li>Suitable tile types including; Ceramic Tiles, Porcelain Tiles, Mosaics, Natural stone, Agglomerates*, Terrazo Tiles*, Glass Mosaic</li> </ul>
PACKAGING	20 kg bag	13.5 kg bag	20 kg bag	20 kg bag

## TILE GROUTS





NAME	SikaCeram <sup>®</sup> CleanGrout	SikaCeram® StarGrout
	One-pack cementitious tile grout for joints from 1 to 8 mm width. CG2 WA classified according to EN 13888.	Two-pack tile grout, based on epoxy resin with quartz ag- gregates and special admixtures. RG classified according to EN 13888. Can be used as tile adhesive (R2T).
MAIN ADVANTAGES	<ul> <li>High resistance to abrasion</li> <li>Mould resistant</li> <li>Water-repellent</li> <li>Frost proof</li> <li>Stable colors</li> </ul>	<ul> <li>High mechanical and chemical resistance</li> <li>Excellent workability</li> <li>Reduced odour</li> <li>Easy to clean</li> <li>Long-lasting finish</li> </ul>
JSES	Suitable for: All types of ceramic tiles Glass mosaic Marble and other porous natural stone	Suitable for: All types of ceramic tiles Ceramic, glass, marble and wood mosaic Marble and other porous natural stone
	Perfect for: Interior and exterior Tanks Swimming pools, etc.	Perfect for: Interior and exterior Laboratories Dairies Spas and swimming pools, etc.
PACKAGING	5 kg and 2 kg bag	3 kg plastic bucket Component A and B
COLORS	25	10 Can be embellished with glitters

# ANCILLARY PRODUCTS

#### SURFACE PREPARATION

#### PRODUCT CHARACTERISTICS & ADVANTAGES PRODUCT **CHARACTERISTICS & ADVANTAGES** Sikadur-Combiflex<sup>®</sup> SG Excellent adhesion Sikafloor®-01 Primer One component, System Extremely flexible Universal dispersion water-dispersed resin High -performance, Weathering and water primer for use with emulsion over-banding joint resistant cementitious levelling Easy to dilute and use sealing and crack Suitable for contact with Easy to control pinkish compounds waterproofing system. drinking water Or tile adhesives. color Easy to clean Sikalastic®-220 W Single component -SikaScreed®-1 Ideal where providing Shrinkage free, readyadditional sand is a Resin based liquid ready-to-use applied waterproofing Crack-bridging to-use screed, just add problem membrane Water based water No shrinkage Conforms to ETAG 022:1 Very good finishing Seamless Rapid-hardening Sikalastic®-152 Flexible waterproofing Cementitious flexible and protection of ■ Cost-effective Sika MonoTop® range fibre-reinforced mortar structures retaining or Complete range of solutions for waterproofing exposed to water such mortars for all types of Certified performance 152 and concrete protection as tanks, concrete pipes, concrete repairs and proven durability bridges etc. Improved fresh Internal waterproofing adhesion of basement walls and floors exposed to low water pressure Sika® Tite Undertile High Extensibility Flexible, one >300% Sikafloor<sup>®</sup> Level PRO Able to be applied part, waterbased Internal and external High performance across large floor waterproofing for use covered applications areas in a single self-levelling compound under finishes Water based - Low application UnderTile VOC's, Non hazardous Very low VOC Micro fibre enhanced Very low shrinkage reinforcement (Grey) Pump or manual application - high flow Sika® SealTape B Highly elastic Self-adhesive sealing Waterproof and tape for compound seal watertight Sikafloor® Level-30 Ready for use Good adhesion to Sika<sup>®</sup> Self levelling fast drying ■ 3-4 hours walk on waterproofing products cementitious screed for time (+20 °C) Very thin Self smoothing and higher thickness interior or exterior floors. highly fluid Fast setting and drying Sika<sup>®</sup> SealTape F Sealing tape for crack bridging

WATERPROOFING

#### **SEALANTS**

#### **PRODUCT CHARACTERISTICS & ADVANTAGES** PRODUCT **CHARACTERISTICS & ADVANTAGES** Sikaflex<sup>®</sup>-11 FC Purform ■ Higher tensile strength SikaCeram® T-Latex High adhesion Faster skin time Multipurpose fast curing Special latex emulsion for performances polyurethane elastic Higher movement capacementitious tile adhesive to High elasticity adhesive and joint sealant bility ±25 % (ISO 9047), improve adhesion and ±35 % (ASTM C920) If mixed with elasticity performances Less impact (Ultra-low SikaCeram®-100 Basic, monomer content) it can be classified as S2 according to EN 12002 Sikasil® Color Ideal where providing ad-Sikadur-32 + Easy to mix and apply Neutral-curing silicone ditional sand is a problem Suitable for dry and damp 2-component structural sealant for construction and No shrinkage concrete surfaces epoxy bonding agent ■ Very good finishing sanitary applications Very good adhesion Rapid-hardening to most construction materials High bond strength Sikaflex<sup>®</sup> AT-Facade Very good workability Over-paintable\* High-performance movement joint sealant ■ Solvent-free Good weathering Movement capability ± 25% (ISO 9047) Primerless adhesion to many porous and



#### Sikasil<sup>®</sup> Pool

Neutral-curing, silicone sealant for swimming pools and other permanently wet areas

- Very high water resistance High chlorine resistance (as required in swimming pools for disinfectant solutions)

non-porous substrates

- Extremely high resistance to fungal attack
- Excellent UV- and weathering-resistance

#### **BONDING AGENTS**

### STANDARDS FOR TILE ADHESIVES & GROUTS

#### **TILE ADHESIVES**

#### **STANDARD EN 12004**

This standard establishes the specifications and methods for classifying of adhesives for ceramic tile and similar material on floors and walls.

С	Cement-base Adhesives in powder form: to be mixed with water or some other appropriate liquid right before use
D	Dispersion Adhesives: ready-to-use pastes based on organic polymers in water dispersion
R	Reactive Adhesives: based on two or more components to be mixed before use, which sets by means of chemical reaction
Class <b>1</b>	Normal adhesives (with minimum criteria)
Class <b>2</b>	Improved adhesives (with additional criteria)
F	Fast setting adhesives
т	Thixotropic adhesives (withstand slip)
E	Extended (longer) open time adhesives

#### **STANDARD EN 12002**

This standard determines the transverse deformation degree (elasticity) of cement-based adhesives and grouts, and divides them into two categories.

<b>S</b> 1	Deformable product with $\geq$ 2.5 mm deformability
<b>S</b> 2	Highly deformable product with $\geq$ 5 mm deformability

#### **TILE GROUT**

#### **STANDARD EN 13888**

This standard establishes the specifications and methods for classifying grouts for ceramic tiles and similar material on floors and walls. It divides the grouts into two categories:

CG	Cement-based Grouts: in powder form, to be mixed with water or some other appropriate liquid right before use
RG	Reactive Grouts: based on two or more components to be mixed before use, which sets by means of chemical reaction

#### There are two classes of cementitious grouts (CG), depending on different additional criteria:

Class <b>1</b>	Normal grouts (with minimum criteria)
Class <b>2</b>	Improved grouts (with additional criteria, reduced water absorption and high resistance to abrasion)

### BRANZ APPRAISALS Sikalastic<sup>®</sup>-152, Sikalastic<sup>®</sup>-220 W & Sika<sup>®</sup> Tite Undertile



Sikalastic-152 Sika Exterior Waterproofing Membrane

Scan the QR Code for a copy of BRANZ Appraisal No. 811 [2013\_2024]





#### Sikalastic-152 Sika Interior Waterproofing Membrane

Scan the QR Code for a copy of BRANZ Appraisal No. 812 [2013\_2024]



### ALSO AVAILABLE FROM SIKA



# FOR MORE INFORMATION ABOUT SIKA TILING SYSTEM SOLUTIONS:



#### WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.

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