

PRODUCT DATA SHEET

Sika® Problend Epoxy Grout

A HIGH PERFORMANCE 2 PART TILE ADHESIVE AND GROUT FOR APPLICATIONS THAT REQUIRE CHEMICAL RESISTANCE AND EXCEPTIONAL BOND STRENGTH, WITH OPTIMUM STAIN RESISTANCE.

DESCRIPTION

Sika® Problend Epoxy Grout is a high performance, 2 Part, easy to apply, chemical resistant, epoxy tile adhesive and grout for heavy duty applications that require high bond strength, optimal stain resistance and superior performance.

Sika® Problend Epoxy Grout is suitable for bonding all types of tile and stone on difficult substrates such as metals, swimming pools, commercial kitchens and breweries and application that require chemical protection.

Sika® Problend Epoxy Grout can be used internal & externally and on both wall and floor applications

Sika® Problend Epoxy Grout is suitable for grouting joints from 1mm to 10mm.

USES

Sika® Problend Epoxy Grout USED AS A TILE & STONE ADHESIVE

Suitable Tile Types include;

Ceramic Tiles
Porcelain Tiles
Glass Tiles and Mosaics
Agglomerates
Natural Stone
Moisture Sensitive Stone, including Serpentine
Terrazzo
Thin Brick
Cement Tiles
Resin backed tile & stone

Suitable Substrates include;

Concrete
Compressed cement boards
Fibre cement boards
Masonry
Metals such as Aluminium, and Steel*
Laminate (internal only with mechanical preparation)

Existing tiles

*metals need to be clean and free from oils and contaminants.

Sika® Problend Epoxy Grout

USED AS A GROUT

- Internal and external applications
- Wall & floor applications
- Joints requiring maximum stain protection
- Joints requiring maximum chemical protection
- Grouting moisture sensitive stone and agglomerates
- Heavy duty applications that require chemical protection such as pools, commercial kitchens and laboratories, breweries and wet areas.
- Heavy duty applications that require exceptional compressive strength such as vehicular traffic, Shopping centres and public high traffic areas.

Suitable Tile Types;

Ceramic Tiles
Porcelain Tiles
Cement Terrazzo
Agglomerates
Moisture Sensitive Stone
Glass Tiles & Mosaics

CHARACTERISTICS / ADVANTAGES

- Exceptional bond strength
- Exceptional flexural strength
- Stain resistant
- High chemical resistance
- Easy to apply and clean
- 2 Part easy to mix
- Long pot life
- joints from 1-10mm
- UV Stable
- Available in various colours
- Marine application approved / Shipbuilding
- Frost resistant
- Low VOC

APPROVALS / CERTIFICATES

EN 12004 RG
EN 13888 R2

PRODUCT INFORMATION

Composition	2 Component epoxy resin
Packaging	5kg Kits
Appearance / Colour	White Sandstone Anthracite Grey Silver Grey
Shelf life	2 Years from date of manufacture
Storage conditions	Store in dry cool conditions out of direct sunlight.
Product Declaration	R2 Class Tile adhesive AS ISO 13007.1&.2:2013 RG Class Tile Grout AS ISO 13007.1&.2:2013

TECHNICAL INFORMATION

Tensile Adhesion Strength	Shear adhesion Strength ≥ 2 N/mm ² after thermal shock	AS ISO 13007
Chemical Resistance	Consult Sika for a detailed list of chemical resistance.	
Service Temperature	-25° ~ +80°C	
Joint width	1mm - 10mm	

APPLICATION INFORMATION

Mixing Ratio	Sika® Problend Epoxy Grout is supplied in pre-measured kits. It is recommended to mix entire kits to ensure performance for product, and colour consistency.	
Ambient Air Temperature	+10°C Min / +35°C Max	
Substrate Temperature	+10°C Min / +35°C Max	
Pot Life	50 Minutes at 20°C	

Applied Product Ready for Use	USE	WAIT TIME
	Grouting	16 hours
	Light foot traffic	16 hours
	Full Use	7-10 Days
	Before filling with water	14 Days

Values determined at laboratory conditions: 20°C
Higher temperatures will reduce waitnig times and lower temperatures will increase.

APPLICATION INSTRUCTIONS

EQUIPMENT

Slow Speed mixing Drill (Max 300RPM)
Sponges (hydro), & nylon scouring pads

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate deflection, all substrates under loads must not exceed of L/360 for tiles and L/450 for stone applications.

- Substrates must be properly cured, structurally sound, free from loose or friable particles, clean, dry and free from contaminants such as dust, dirt, oil, grease, curing compounds, laitance or efflorescence.
- Dependant on the substrate condition and contamination to be removed from the surface, perform adequate preparation techniques such as water blasting, scarification, or blast cleaning in order to remove all traces of any materials that could reduce the products adhesion to the substrate.
- Any small defects in surface variations in level, profile or around exposed aggregates for example, can be prefilled and levelled with appropriate Sika MonoTop® or Sikafloor® level range. Cracks in substrates must be identified, and sealed / treated appropriately.
- For tiling wet areas, a suitable Sika approved waterproof membrane should be used prior to tiling.

CONCRETE FLOORS: Allow 28 days for concrete to cure. Concrete shall be left with open surface - steel trowel finishes are acceptable if they accept water. Wood float and broom finishes are preferred where possible. All traces of curing compounds, sealers, release agents, coatings, dust, dirt, oil, and any other contaminant that may inhibit the adhesion must be removed prior to tiling.

CEMENT MORTAR BEDS / SCREEDS: Must be installed as per AS ISO 3958.1-2007. and be a minimum of 48 hours old at 21 degrees°C.

SHEETED SUBSTRATES: All boards / underlays must be installed as per manufacturers instructions and specifically designed for tiling.

METAL SUBSTRATES: Metals must be clean and free from oil and other contaminants that could affect the bond. Lightly abrade the metal with steel wool and clean residue with Isopropyl Alcohol. Allow to dry prior to fixing.

FIBREGLASS SUBSTRATES: Fibreglass must be rigid enough to support tiling system. Prepare substrate with a light abrasion (not to expose fibres) clean residue off with water, prior to tile fixing.

MIXING

Thoroughly mix parts a & b together for approximately 2 minutes to achieve a smooth lump free homogeneous paste. Ensure colour is even and without streaks. Re-pot the mix and restir for additional minute to ensure product is full mixed. Optimum temperature for mixing is 15°C. Product may be cooled with ice water bath prior, and or heated in a warm bucket of warm water.

APPLICATION

Application as Tile & Stone adhesive

Tiles shall be fixed in accordance with AS3958.1-2007. Ensure the backs of the tiles are clean and free from dust and contaminants.

Apply the adhesive to the substrate with the appropriate sized trowel to achieve coverage requirement on both substrate and the back of the tile. Tiles may require "back-buttering" to achieve maximum coverage requirements.

Apply the adhesive with the notched trowel in a single direction. While pressing the Tile into the wet adhesive, break the ridges with the tile to fully bed the tile into the adhesive.

It is advisable to periodically check the back of the tiles to ensure adequate adhesive coverage is achieved in accordance to the standard.

Only apply as much adhesive that can be covered by the tiles prior to the adhesive skinning. If skinning occurs prior to placement of tiles remove and replace.

Remove any excess adhesive from the face of the tiles with a damp sponge and ensure grout joints are clean and free from excess adhesive and uniform depth.

Movement, Expansion, and Control joints must be installed as per AS ISO 3958.1-2007.

Application as Grout

Ensure tile adhesive is adequately dry prior to grouting and free from excess moisture within the joints.

Ensure joint and clean and free from dust and contaminants.

Ensure joints are of even depth.

Apply grout with Epoxy grout spreader to completely fill the joint. Remove as much excess from the face of the tiles with the Epoxy grout spreader. Allow grout to lightly firm prior to cleaning.

Remove grout haze firstly by scouring the area with clean water and a nylon scoring pad in a circular direction to remove all excess grout and smooth joints.

Then with a clean sponge and water wipe the grout haze off the face of the tiles in a diagonal direction.

Rinse sponge and repeat. Periodically change the water, sponges and nylon scourers to ensure no grout haze is left behind.

A secondary clean is recommended approx 2-3 hour after application. Repeat cleaning steps as above.

Warm Water may make the clean up easier.

*Note for moisture sensitive stone and high porous tiles it is recommended to test an area for suitability prior to application.

CLEANING OF EQUIPMENT

Cleaning of tools and equipment can be done while product is still wet. Mechanical removal is required once the product is dry.

IMPORTANT CONSIDERATIONS

- Sika® Problend Epoxy Grout should not be used in areas with temperature requirements above 80°C
- Sika® Problend Epoxy Grout must be mixed and used as directed.
- For movement and expansion joints, use PROBLEND™ S1 flexible silicone or suitable Sika Sealant
- Full cure of 14 days is necessary prior to full submersion with chemically treated water.
- Epoxy, epoxy residue, or wash water will discolour painted or anodized surfaces upon contact.
- Sika® Problend Epoxy Grout should be tested for possible staining or slight colour changes when used with porous, absorptive, rough textured tiles, natural stone or marble.
- Sika® Problend Epoxy Grout is best applied when temperatures are between 15°C & 30°C.
- Not recommended in facilities where heavy solvents are used.
- Colours may be slightly different than shown on colour samples. When colour considerations are critical, a mock-up should be constructed prior to final selection and application.
- The use of non-rinse, enzyme-based cleaners is not recommended as they may cause permanent damage.
- Please consult Sika for further details as required.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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