BUILDING TRUST

PRODUCT DATA SHEET

SikaCeram®-880 Easy Epoxy

Epoxy tile grout and adhesive

PRODUCT DESCRIPTION

SikaCeram®-880 Easy Epoxy is a two-part, easy to use, coloured epoxy-based tile grout and adhesive. It is suitable for floor and wall application.

USES

SikaCeram®-880 Easy Epoxy is used for bonding and grouting of the following types of tiles:
- Ceramics
- Glass mosaic

SikaCeram®-880 Easy Epoxy is used for bonding and grouting tiles for the following applications:
- Seawater pools
- Swimming pools
- Thermal pools
- Turkish baths
- Private and public bathrooms
- Commercial, industrial, or residential kitchens
- Dairies
- Tanneries
- Paper mills
- Laboratories
- Slaughterhouses

SikaCeram®-880 Easy Epoxy is used for interior and exterior applications.
Please note:
- The Product may only be used by experienced professionals.
- Do not use for any other applications that are not explicitly described in this Product Data Sheet.

CHARACTERISTICS / ADVANTAGES

- Grout joint range: 1 to 20 mm
- Very good resistance to specific chemicals
- Good resistance to staining
- Easy to clean
- Highly thixotropic for tiling and grouting on floor and wall
- Impermeable to water and water vapour
- High abrasion resistance
- Very good workability
- Very good UV stability

ENVIRONMENTAL INFORMATION

- VOC emission classification GEV Emicode EC1^{plus}

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 12004:2007+A1:2012 Adhesives for tiles — Reactive resin adhesives — All internal and external tiling

PRODUCT INFORMATION

Chemical Base	Epoxy resin, aggregates and special additives
Packaging	5 kg containers (Part A+B)
Colour	White, Jura Beige, Silver Grey, Havanna, Grey, Bali Brown, Anthracite, Platinum Grey, Black
Shelf Life	24 months from date of production

Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0 °C and +30 °C. Always refer to the packaging.

Product Declaration	Adhesive for ceramic tiles	Class: R2 T	EN 12004
	Grout for tiles	Class: RG	EN 13888

Colour	Part A: Viscous liquid, Part B: Coloured paste

TECHNICAL INFORMATION

Abrasion Resistance	≤ 250 mm ³	(EN 12808-2)
Compressive Strength	≥ 45 MPa	(EN 12808-3)
Flexural Strength	≥ 30 MPa	(EN 12808-3)
Shrinkage	≤ 1.5 mm/m	(EN 12808-4)

Tensile adhesion strength	Initial	≥ 2 MPa	(EN 12004-2)
	Water immersion	≥ 2 MPa	
	Thermal shock	≥ 2 MPa	

Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.

Thermal Resistance	Maximum	+80 °C
	Minimum	-20 °C

Skid / Slip Resistance	≤ 0.5 mm	(EN 12004-2)

Joint width	Maximum	20 mm
	Minimum	1 mm

Water Absorption	After 240 mm - ≤ 0.1 g	(EN 12808-5)

APPLICATION INFORMATION

Mixing Ratio	Part A+B	4.01 kg base component + 0.99 kg hardener component

Consumption

Approximately 1.6 kg/m² and mm layer thickness

TILE LAYING

Notch size	**Consumption**
4 mm	1.9 kg/m²
6 mm	2.3 kg/m²
8 mm	3.2 kg/m²
10 mm	3.8 kg/m²

GROUTING

Notch size	**Consumption**
Medium mosaic 5 × 5 cm (3 mm joint width, 5 mm joint depth)	1.0 kg/m²
Tiles 20 × 20 cm (5 mm joint width, 8 mm joint depth)	0.7 kg/m²
Fully vitrified tiles 30 × 60 cm (4 mm joint width, 8 mm joint depth)	0.3 kg/m²

Layer Thickness	Minimum adhesive bed thickness	1 mm

Product Temperature	Maximum		+25 °C
	Minimum		+5 °C
Substrate Temperature	Maximum		+25 °C
	Minimum		+10 °C
Substrate Moisture Content	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %
Pot Life	At +20 °C		45 min
Open Time	60 minutes		
Curing Time	TILING		
	Waiting time before grouting on the wall		4 hours
	Waiting time before grouting on the floor		16 hours
	GROUTED FLOOR COVERING		
	Walkable after		16 hours
	Can be exposed to water or chemicals after		3 to 7 days
Waiting time	Emulsifiable/rewashable		10–60 minutes

VALUE BASE

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

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT
- Electric single-paddle mixer (up to 300 rpm) with spiral paddle

APPLICATION EQUIPMENT
- Notched trowel
- Trowel
- Rubber float
- Sponge float
- Soft cloth
- Grout finishing tool

SUBSTRATE PREPARATION

TILING
Suitable substrates include the following materials:
- Cementitious materials
- Gypsum and cement-based substrates
- Paint coating
- Tiles
- Metal
- Glass fibre-reinforced plastic

For other substrate types, contact Sika Technical Services.
IMPORTANT
Carry out equipment trials
Carry out equipment trials to make sure the Product can be mixed satisfactorily before full project application.
The following conditions regarding substrate quality must be fulfilled or appropriate measures must be taken.
- Cementitious substrates must be sufficiently cured and dried (between 2 to 6 weeks).
- All substrates must possess structural stability to bear the weight of the new tiling while providing a secure and firm base.
- Surfaces must be dry and clean, free of loose or friable particles and contaminants such as dust, dirt, oil, wax polish, grease, cement laitance, or efflorescence.
- Prepare substrates mechanically using techniques such as sanding and scraping to remove all traces of any materials that could reduce the product's adhesion to the substrate. Remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
- Smooth surfaces must be roughened lightly to improve adhesion.
- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing tiles or painted surfaces, ensure these surfaces are stable, firmly bonded, and securely in place. Afterwards, use

suitable degreasing or descaling products to clean the surface thoroughly and completely.
- For tiling in constantly damp or wet rooms, a suitable Sika® waterproofing product or system must be applied to the substrate before tiling.

GROUTING
- All surfaces must be clean, dry and free of grease.
- Ensure the joint does not contain excess tile adhesive.

MIXING

SikaCeram®-880 Easy Epoxy is a reactive product. It sets from a chemical reaction between the two parts, A and B. These parts must be thoroughly mixed at the correct mixing ratio. Mix full units only.

1. Mix part A (the resin component) briefly using an electric single paddle mixer with a spiral paddle.
2. Add part B (hardener) to part A and mix both parts continuously for 3 minutes until the mixture achieves a uniform colour.
3. Transfer mixed material to a clean bucket and mix again thoroughly.

APPLICATION

IMPORTANT
Risk of cracking due to application in direct sun or strong winds
1. Do not apply the Product in direct sun, strong winds or both.

IMPORTANT
Absorbency of natural stone substrates
Staining from plasticiser migration may occur when used on natural stone.
1. Contact Sika Technical Services for further advice.

IMPORTANT
Guidance on the provision of expansion joints
Guidance on the provision of expansion joints can be found in the tile manufacturer's instructions.

TILE ADHESIVE
SikaCeram®-880 Easy Epoxy is applied using a suitable notched trowel.
1. Apply sufficient Product to the prepared substrate at the required adhesive bed thickness. Ensure enough is applied to adequately wet the backs of the tiles.
2. Carry out tiling on the freshly applied Product. Note For tiles > 900 cm² (for example 30 × 30 cm), use the double spreading (buttering) technique.
3. Exert enough pressure on the tiles to ensure complete and even contact for optimum adhesion with the Product.
4. If a skin forms on the surface of the Product, immediately remove the adhesive layer with a trowel and discard. Then apply a fresh layer of the Product.
5. Adjust tiles if required.
6. Remove excess Product from the tile face and from between tile joints before it dries.

TILE GROUTING
SikaCeram®-880 Easy Epoxy is applied using an appropriate rubber float.
Preconditions
Observe the tile adhesive curing time before starting to grout.
1. Completely fill the joints and compact them uniformly.
2. Using the same float, remove excess grout from the tile surfaces, moving the tool diagonally across the joints.

TILE CLEANING
IMPORTANT
Leaving the surface too long before cleaning
Epoxy haze caused during application will be difficult to safely remove if the Product is left too long before cleaning.
1. At +20 °C the initial, emulsifying clean can be given 10–45 minutes after finishing the grouting.
2. At +20 °C, the surface can be given a second clean, using more water, up to 60 minutes after mixing the Product.
3. Higher ambient temperatures will reduce this period and lower ambient temperatures will extend it.

Preconditions
The grout has set sufficiently to avoid it being removed from the joint during cleaning.
1. For an initial, emulsifying clean, use a small amount of clean, lukewarm water and a sponge float.
2. Rub the tiles in a circular motion to remove excess material. Rinse the sponge frequently.
3. For the second clean, wash the surface with a sponge float in diagonal movements. Add SikaCeram-960 Epoxy Finish to the wash water, diluted 1 : 100.
4. IMPORTANT Rinse the sponge and change the wash water frequently. Remove any smears or remaining haze.
5. On the same day, check if the surface is clean as soon as it has dried. Repeat the cleaning process if necessary.
6. When the grout has cured the next day, use SikaCeram®-960 Epoxy Finish diluted 1 : 100 in clean water to remove any remaining haze.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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