

## PRODUCT DATA SHEET

SikaCeram<sup>®</sup>-100 MT

(formerly MTile 100)

High performance 3 component Epoxy Tilogrout

## DESCRIPTION

Epoxy resin-based tile grouting system for pavers, ceramic tiles, stone tiles, mosaics and acid resistant tiles in medium and heavy-duty corrosive and hygienic environments. SikaCeram<sup>®</sup>-100 MT is available in a wide range of standard shades suitable for color matching with all types of tiles in the market

## USES

- Joints in Vitrified, Ceramic, mosaic tiles, etc
- Stain free finish for any kind of natural stone
- Indoor and outdoor use
- Swimming pools and leisure facilities
- Showers, areas artificial water bodies, etc
- Heavy duty workshops, garages and services facilities
- Food processing units : meat, fish, vegetable and fruits, canning areas, dairies and bakeries.
- Sewerage plant & sewer lines, etc

## CHARACTERISTICS / ADVANTAGES

- Excellent resistance to most aqueous systems including sewerage, urine, saltwater, dilute acids and alkalis, oils and fats, etc
- Stain free finish – Excellent resistance to stain
- Non-absorbent easy to clean and hygienic in service
- Crack-free and non-shrink- curing and setting without shrinkage and very high adhesion to tiles and substrate.
- Resistant to frost and weathering - multipurpose use indoors and outdoors.
- Good Workability - easy to apply.
- Non-Sag Consistency - Suitable for both vertical and horizontal applications
- Coloured - Available in a wide range of shades

## PRODUCT INFORMATION

Packaging	1kg & 3 kg pack system (Base + Hardener + Colored Filler)
Colour	Available in a wide range of standard shades
Appearance / Colour	Thixotropic Paste
Shelf life	24 months from the date of production when stored as per the storage guidelines .
Storage conditions	Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment for longer shelf life
Density	Mixed Density @ 23°C : 1.7 kg/l
Solid content by volume	≈ 100%

## TECHNICAL INFORMATION

Shore D hardness	≥ 81 @ 7 days	(ASTM D 2240)
Abrasion resistance	< 250 mm <sup>3</sup>	(EN 12808-2)
Compressive strength	≥ 60 MPa @ 25°C	(ISO 13007-4/EN 12808-3)
Flexural strength	≥ 40 MPa @ 25°C	(ISO 13007-4/EN 12808-3)
Tensile strength	≥ 9 MPa @ 7 days	(BS:6319 part 3))
Shrinkage	24 hrs	< 1.5mm/m (EN 12808-4)
	At 28 days on full cure	< 0.01 (ISO 13007:44.3)
Tensile adhesion strength	≥ 1.5 MPa at 7 days (Adhesive bond to concrete)	(ASTM D4541)
Water absorption	< 0.1 g	(EN 12808-5)

## APPLICATION INFORMATION

Mixing ratio	1kg pack	0.180 (Base) : 0.110 (Hardener) : 0.710 (Colored Filler) by weight
	3 kg pack	0.530 (Base) : 0.320 (Hardener) : 2.150 (Colored Filler) by weight
Ambient air temperature	+10 °C min. / + 40 °C max	
Substrate temperature	+10 °C min. / + 40 °C max	
Pot life	@25°C	Approx 70 minutes
	@40°C	Approx 30 minutes
Adjustability time	45-60 min at 25°C (Water Cleanability)	
Setting time	Initial	≈ 300 min (S 4031 Part 5 : 1988)
	Final	≈ 360 min

## 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### Surface preparation

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully hardens. Ensure all laitance and contaminants are removed. Prior to application, SikaCeram®-100 MT pack should be stored under cover and protected from extreme temperature which may cause inconsistent workability and cure times for the mixed material.

**Note:** Ideally, at least 24 hours before mixing, SikaCeram®-100 MT systems should be maintained at approximately 20°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it is likely to be considerably colder than the surrounding air temperature. When temperatures exceed 30°C during application, working times may be reduced by as much as 50%.

### Mixing

SikaCeram®-100 MT is of paste consistency and should be mechanically mixed. Using a slow speed electric drill with a paddle attachment, pour hardener (Part B) & base (Part A) in bucket and mix for 30 seconds. Subsequently slowly add pigmented filler (Part C) for approximately 2 minutes or until a uniform consistency and colour is obtained.

### Grouting

The grouting operation can be carried out simultaneously with the application of the epoxy bedding mortar or after the cementitious bedding mortar has set and fully cured. Apply the epoxy grout to the joints by rubber spatula. 45-60 minutes after the grouting operation, use a scrub pad to remove surplus material from the face of the tiles before it sets & use sponge to clean the grooves. Care should be taken not to use excess water or allow water to come in con-

tact with the wet grout.

## 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 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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### **Product Data Sheet**

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