

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-108 Extra TZ

Water-repellent high performance polymer-modified Tile Adhesive

### DESCRIPTION

SikaCeram<sup>®</sup>-108 Extra TZ is a polymer modified, cement based, improved adhesive for ceramic and porcelain tiles. It can be used in layers up to 5 mm thick and is suitable for all kind of tiles for inside and outside application for residential and medium load areas.

### USES

Suitable for bonding of high absorption ceramic tiles, earthenware, extruded and refined porcelain tiles

- Suitable for wet rooms such as bathrooms, kitchens, balconies, terraces, etc.
- Indoor and outdoor application over concrete, cement mortars, bricks and plaster.
- For horizontal and vertical areas.
- Suitable for moisture tolerant natural stone
- Suitable to tile directly on various Sika waterproofing products.

### PRODUCT INFORMATION

<b>Composition</b>	Hydraulic binders, mineral fillers, special additives
<b>Packaging</b>	25kg, 27.5kg bag
<b>Shelf life</b>	12 months minimum from production date if stored properly in original un-opened, sealed and undamaged packaging.
<b>Storage conditions</b>	In its original undamaged packaging, stored away from humidity and excessive heat.
<b>Appearance / Colour</b>	Grey powder
<b>Maximum grain size</b>	Dmax: 0.4 mm
<b>Skid / slip resistance</b>	≤ 0.5 mm
<b>Mixing ratio</b>	Add about 5.75 -6.25 liters clean potable water to a 25 kg bag or 6.325 - 6.875 liters clean potable water to a 27.5 kg bag. Mix mechanically using a forced action mixer or slow speed drill (< 500 rpm) and mixing paddle for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do

### CHARACTERISTICS / ADVANTAGES

- Very good adhesion
- Easy to use with excellent workability and thixotropic consistency
- Good bond strengths
- Water resistant
- Non-Toxic
- No vertical slip, high slump resistance and grab
- Suitable for all types of Ceramic and Porcelain tiles

### APPROVALS / CERTIFICATES

C1T classified according to EN 12004

NOT use a normal free fall concrete mixer. Do not mix more material than can be used within the open time. Leave material to stand in mixing container until the majority of bubbles have dispersed

<b>Fresh mortar density</b>	About 1.9 kg/litre when wet mix at 25°C
<b>Consumption</b>	The consumption depends on the surface profile and roughness of the substrate and the placing technique (simple placing or back back-“buttering”). One 25/27.5 kg bag will cover approximately 5 – 7 m <sup>2</sup>
<b>Layer thickness</b>	Minimum 2mm Maximum 5mm
<b>Ambient air temperature</b>	Minimum 8°C, Maximum 40°C
<b>Substrate temperature</b>	Minimum 8°C, Maximum 35°C
<b>Open Time</b>	≥ 0.5 N/mm <sup>2</sup> after 25 min (25 °C) (EN 1346)
<b>Curing time</b>	Before jointing / grouting works - Min 8 hours Before opening to light foot traffic - Min 24 hours Before opening to full traffic - Min 14 days
<b>Adjustability time</b>	Once the tiles are set into the mortar, they can be adjusted for up to approximately 30 minutes (at +25°C)

## 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.

## FURTHER INFORMATION

- Cementitious substrates must be strong enough for application of the tiles and the substrates should not continue to shrink after the installation of the tile.
- Do not exceed the recommended water dosage. Apply only to sound, prepared substrates.
- Do not exceed maximum layer thicknesses. If additional waterproofing underneath the tiles is required, then the following products can be used: Sika Top® Seal-107, Sika Cemflex, etc. Refer to the relevant product data sheet for more information.
- Protect freshly applied material from rapid drying due to heat, wind etc. and from contact with water or other liquids before the mortar has hardened.

## ECOLOGY, HEALTH AND SAFETY

See local Material Safety Data Sheet (MSDS)

### MIXING

Pour the recommended amount of water into a suitable, clean mixing container. Whilst stirring slowly, slowly add the SikaCeram®-108 Extra TZ powder to the water and then mix thoroughly using a low speed (~500 rpm) electric mixer until a completely homogeneous and lump-free mix is achieved. After mixing, leave the material to stand and ‘mature’ for a few minutes (5 to 10 min), and then briefly stir again immediately prior to application. The resulting mix has a very creamy consistency and is easy to apply and spread.

## APPLICATION

Apply SikaCeram®-108 Extra TZ at 2 - 5 mm thickness directly to the concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled. Cover only an area that can be tiled within 20 - 30 minutes. Apply with “V”-notched trowels for small tiles. Apply with square notched trowel for bigger tiles. Press tiles firmly into the mortar with a twisting

## CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipments with clean water before the product has set, preferably immediately after use. Once hardened the product can only be removed by mechanical means.

## LOCAL RESTRICTIONS

See legal notes

## 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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