

PRODUCT DATA SHEET

SikaCeram[®]-105 Multi TZ

High performance polymer-modified Tile Adhesive

DESCRIPTION

SikaCeram[®]-105 Multi 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

Packaging	25kg bag
Shelf life	12 months minimum from production date if stored properly in original un-opened, sealed and undamaged packaging.
Storage conditions	Undamaged original sealed packaging, in dry cool conditions.
Appearance / Colour	Grey Powder
Maximum grain size	Dmax: 0.4 mm
Skid / slip resistance	≤ 0.5 mm
Water absorption	For earthenware ceramic, stoneware water absorbency < 3% For porcelain tiles water absorbency < 0.5%
Mixing ratio	Add about 5.75 -6.75 liters clean potable water to a 25 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 NOT use a normal free fall concrete mixer. Do not

CHARACTERISTICS / ADVANTAGES

- Very good adhesion
- Easy to use with excellent workability and thixotropic consistency
- Good bond strengths
- 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

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 (minimum 10 minutes). Then remix the material for 15 seconds – the product is now ready for use. If open time is exceeded or the adhesive dries prematurely, remove tiles and re-apply using fresh material.

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface must be clean, sound, level and uncontaminated by oil or grease. Remove cement literacies, formwork traces and loosely adhering particles by sand blasting or high pressure water jetting. New concrete block work, render or screed should be allowed to cure for at least 28 days and or until shrinkage movement has completed before fixing tiles. Absorbent substrates must be pre-watered to saturate surface dry(SSD) conditions.

MIXING

Pour the recommended amount of water into a suitable, clean mixing container. Whilst stirring slowly, slowly add the SikaCeram®-105 Multi 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®-105 Multi 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

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.

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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