

PRODUCT DATA SHEET

SikaCeram[®]-205 Super TZ

High performance cementitious polymer-modified Tile Adhesive

DESCRIPTION

SikaCeram[®]-205 Super TZ is a high performance flexible cementitious adhesive, containing high performance cements, selected silica/ quartz minerals and specific additives, supplied ready to use with the addition of water. It can be used for bonding ceramic tiles internally and externally, for vertical and horizontal applications. SikaCeram[®]-205 Super TZ is suitable for all kinds of tiles in hot and tropical climatic conditions. EN 12004 class C2TE.

USES

- Suitable for bonding of highly absorbent ceramic tiles, earthenware, extruded and refined porcelain tiles.
- Suitable for bonding of large size tiles used in industrial environment, wet areas, swimming pool, Facade.
- Suitable for bathrooms, kitchens, balconies, terraces, etc.
- Indoor and outdoor application over concrete, cement mortars, bricks, plaster and existing tiles.
- Suitable to tile directly on various Sika waterproofing products.

PRODUCT INFORMATION

Composition	High quality cementitious mortar modified with polymers
Packaging	25 kg bag
Shelf life	12 months minimum from date of production if stored properly in original unopened, sealed and undamaged packaging.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions. Protect from direct sunlight, heat and moisture.
Appearance / Colour	Grey
Maximum grain size	0.4mm
Tensile adhesion strength	Initial ≥ 1.0 N/mm ²

CHARACTERISTICS / ADVANTAGES

- Very good adhesion to most substrates
- Easy to use with excellent workability and thixotropic consistency, just add water
- Good bond strengths
- Non Toxic
- Weather resistance
- Suitable for indoor and outdoor applications
- Extended open time
- High flexibility

APPROVALS / CERTIFICATES

Improved cementitious adhesive with reduced slip and extended open time classified C2TE according to EN 12004.

	Water immersion ≥ 1.0 N/mm ² After heat ageing ≥ 1.0 N/mm ²	
Skid / slip resistance	≤ 0.5 mm	(EN 1308)
Mixing ratio	29 - 30 % or 7.25 - 7.5 litres clean water per 25 kg bag	
Fresh mortar density	Fresh mortar density: ~ 1.7 kg/l 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 1.5mm / Maximum 5mm	
Open Time	≥ 1 N/mm ² after 30 min (25 °C)	(EN 1346)
Curing rate	Floor tiles can be grouted Wall tiles can be grouted Light foot traffic Full traffic / use	After 24–36 hours After 7–8 hours 24 hours 14 days
	Values determined at laboratory conditions: 25 °C \pm 2 °C. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.	
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.

IMPORTANT CONSIDERATIONS

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. It is not necessary to pre-dampen the tiles.

ECOLOGY, HEALTH AND SAFETY

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blast cleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, pro-

file, or around exposed aggregates for example, can be pre-filled and levelled with an additional layer of SikaCeram®-205 Super TZ, to a maximum thickness of 10 mm, applied at least 24 h before the ceramic tiling is laid. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.

- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).
- For tiling in frequently damp or wet rooms, then a suitable Sika® waterproofing product / system should be applied before the tiling.

MIXING

Mix 25 kg bag with the necessary above mentioned amount of water, using an electric blender with a suitable mixing spiral at low speed in a clean bucket and up to obtain a smooth paste free of lumps. Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product. After blending, leave the product to stand and 'mature' for 5 minutes in the mixing con-

tainer
and then briefly stir the mix prior to application. The
obtained mix results very creamy, easily spreadable
and thixotropic.

APPLICATION

- Apply SikaCeram®-205 Super TZ at 1.5 - 5 mm thick-
ness 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 15 - 30
minutes.
- Apply with 3mm “V”-notched trowels for small
tiles(5*5cm). 6mm “V”-notched trowels for normal
tiles(Less than 200*200).
- Apply with 9mm square notched trowel for bigger
tiles.
- And for tile larger than 300*300 or highest perform-
ance requirements, back-buttering technique for
bedding should be used.
- Press tiles firmly into the mortar with a twisting ac-
tion to ensure optimum adhesion.

CLEANING OF EQUIPMENT

Clean all equipment and tools with water immediately
after use. Dry hardened material can be removed
mechanically.

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 recommenda-
tions relating to the application and end-use of Sika
products, are given in good faith based on Sika's cur-
rent knowledge and experience of the products when
properly stored, handled and applied under normal
conditions in accordance with Sika's recommenda-
tions. In practice, the differences in materials, sub-
strates and actual site conditions are such that no war-
ranty 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 recom-
mendations, or from any other advice offered. The
user of the product must test the product's suitability
for the intended application and purpose. Sika re-
serves 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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