

PRODUCT DATA SHEET

SikaCeram[®] A 200

(formerly MTile A 200)

Multi-use water resistant latex additive and bonding agent for cementitious mortars

DESCRIPTION

SikaCeram[®] A 200 is a specially formulated latex additive, for use with Portland cement and sand to form high strength mortars for the installation of ceramic, marble, mosaic or quarry tiles, brick slips, natural or artificial stone.

SikaCeram[®] A 200 is a synthetic rubber emulsion containing hydrophilic additives, fungicides and defoaming agents.

USES

SikaCeram[®] A 200 is used wherever increased abrasion, water and chemical resistance is required. It may be used to enhance the properties of sand/cement mortars for tiling or added to SikaCeram[®] range adhesives and grouts.

Used as an additive with SikaCeram[®] adhesives, a degree of flexibility is imparted, improving the adhesive's suitability for use where road traffic or machine vibration is indicated.

FEATURES

SikaCeram[®] A 200 enhance the following properties of sand/cement mortar mix:

- Increased adhesion
- Improves flexibility
- Resistance to impact and thermal shock
- Water resistant

SikaCeram[®] A 200 is economical and non-toxic.

PRODUCT INFORMATION

Composition	Styrene butadiene emulsion (SBR)
Packaging	18 L pail and 210 L drum
Shelf life	12 months from production date
Storage conditions	Store properly in undamaged original sealed packaging, in dry cool conditions at temperatures between 5°C and 25°C. Protect from direct sunlight, heat, contamination and moisture.
Appearance and colour	High viscosity white liquid
Density	~1.01 kg/l (at 25°C)

TECHNICAL INFORMATION

Compressive strength	≥ 40 N/mm ² <small>Note: When tested as Thick bed (semi-dry mix system), refer to "Mixing ratio" section below.</small>	(ASTM C109)
Flexural-strength	~13 N/mm ² <small>Note: When tested as Thick bed (semi-dry mix system), refer to "Mixing ratio" section below.</small>	(ASTM C580)
Tensile strength	~6.5 N/mm ² <small>Note: When tested as Thick bed (semi-dry mix system), refer to "Mixing ratio" section below.</small>	(ASTM C307)

APPLICATION INFORMATION

Mixing ratio

Thin bed fixing for wall and floor tiles

	Quantity
Portland cement	50 kg
Quartz Sand (medium grade)	50 kg
SikaCeram® A 200	10 L
Water	10 L

- 1 / 1 dilution of SikaCeram® A 200 with water is suitable for this application.

Thick bed fixing

	Quantity
Portland cement	50 kg
Quartz Sand (medium grade)	150 kg
SikaCeram® A 200	10 L

- Screed to be bonded or un-bonded as per BS 8204-1.
- Slurry bond to slab: 2 : 1 : 1 (cement : SikaCeram® A 200 : water)
- To minimise the risk of moisture staining when bedding natural stone, use suitable sealer.
- It may be necessary to add water to achieve the desired consistency dependent upon type of sand utilized.

Thick bed (semi-dry mix system)

	Quantity
Portland cement	50 kg
Water	*10-15 L
SikaCeram® A 200	2.5 L

*Depending on screed moisture requirements.

- Screed mix design 1:4 / 1:5
- Screed aggregate ideally even distribution of 0 - 8 mm clean, dry, sharp sand (Screed thicknesses > 50mm replace 15 % aggregate with 8 - 10 mm light concrete aggregate).

Grouting	Fine sand	Portland cement	SikaCeram® A 200
Up to 3 mm	50 Kg	50 Kg	10 L
Up to 12 mm	100 Kg	50 Kg	10 L
Over to 12 mm	150 Kg	50 Kg	10 L

- The proportion of sand to cement will vary with the width of joint to be grouted.

Yield

Thin bed fixing mix	50 L
Thick bed fixing mix	100 L

For mix-design details, refer to section: Mixing ratio.

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.
- Internal Reference - Version: MBS_CC-UAE/Tile_A200_08_95/v2/09_15/v3/12_19/v4

IMPORTANT CONSIDERATIONS

- Wherever tiles are being laid over existing concrete surfaces it is important that expansion joints in the subfloor or background are carried through the SikaCeram® A 200 modified mortar.
- This can be done by fitting a temporary timber batten wrapped in one layer of polyethylene.
- Minimum width of expansion joints should be 6.5mm. Seal the joint after tiling using Backer Rod followed by Sikaflex® or SikaSeal® range of products.
- Never use pure SikaCeram® A 200 or SikaCeram® A 200-water mix directly onto the substrate as bonding bridge, always add cement and sand to the mix.
- The standard rules of good practice for production and placing of bonding bridge, repair and adhesive mortars must be observed when using SikaCeram® A 200. Refer to relevant standards.
- Higher dosages can be used depending on the mix design, raw materials, climatic conditions and mortar requirements.
- Trial mixes must be performed to establish the exact dosage rate required.

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

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate shall be thoroughly clean, rough, free from dust, loose material, surface contamination.
- Delaminated, weak, damaged and deteriorated substrate shall be removed by suitable means before application.
- Rust, scale, dust and other loose and deleterious materials which reduces bond or contributes to corrosion shall be removed.
- Remove all laitance, oil, grease, mould oil, curing compound, leaving an open textured surface.
- Damp down the surface prior to application of SikaCeram® A 200 modified mortars, ensuring surface is damp, but without visible free water.

MIXING

- All mixing should be carried out in a forced action mixer although hand mixing is acceptable where the total weight of mix does not exceed 25 kg.
- Charge the mixer with the correct quantity of sand and cement, and premix for one minute.
- Pour in the desired quantity of SikaCeram® A 200 (premixed with water if necessary) and mix for 3 minutes.
- Due to the strong plasticising action of SikaCeram® A 200, care should be taken to ensure prolonged mixing does not occur.
- Material will remain workable for approx. 3 hours at 35°C.
- Where possible, protect mixed material from wind, or direct sun.

APPLICATION

- Apply to surface using notched trowel technique.
- Working in areas of approximately 1 metre at a time to avoid skinning of the adhesive.
- Set dry tiles in bed of mortar, and slightly twist to ensure good adhesion. When tiles are aligned in final position lightly tap using a wooden float.
- Allow tiles to set for 24 hours before grouting.
- Alternatively, especially when tile fixing in permanently wet conditions, or fixing heavy decorative cladding, solid bed fixing is recommended.
- Apply solid bed to required depth, and "push" the tiles into place.
- Ensure that the ribs on the back of the tiles are filled in using buttering techniques. This will ensure full contact of adhesive.

CURING TREATMENT

Fresh applied mortar must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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