BUILDING TRUST

PRODUCT DATA SHEET

# SikaCeram® P 302

(formerly MTile P 302)

SOLVENT FREE MODIFIED ACRYLIC RESIN DISPERSION PRIMER

## DESCRIPTION

SikaCeram® P 302 is a 1-component, multi-purpose, acrylic, moisture barrier and primer. It protects thin bed mortars and levelling compounds from rapid absorption of water, increases open time, improves adheson and prevents formation of shrinkage cracks. Its blue colour allows easier coverage control.
Suitable for use in hot and tropical climatic conditions.

## USES

- For indoor and outdoor use
- For walls and floors
- Acting as a moisture barrier and primer for plaster, plaster slabs, gypsum fibre boards, plaster boards, aerated concrete, concrete, asphalt, render and brickwork before tiling and wallpapering
- Primer for anhydrite screeds and building boards
- Primer for aerated concrete, sand-lime brick, brickwork and concrete on walls prior to the application of plaster and lime plastering
- Primer prior to the application of Sikalastic® WP 668 on porous substrates
- Priming prior to the application of self-levelling floor underlayments from SikaLevel® range and other mortars and anhydrite screeds which set through hydration
- Primer to strengthen mealy, absorbent screed surfaces and plasters indoors prior to the laying of tiles and mosaic
- For priming absorbent substrates to protect subsequent materials from rapid dehydration

## FEATURES

- Waterborne, no damage to environment and operative by solvent vapours.
- No danger of fire or explosion. No harmful vapours.
- Improves the adhesion of tiles over gypsum based substrates
- Protects thin-bed mortars and levelling compounds from rapid dehydration, extends the open time, improves adhesion and prevents formation of cracks caused by shrinkage.
- Prevents formation of air bubbles and rapid dehydration when levelling floors with underlayments

## PRODUCT INFORMATION

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|---|---|
| **Composition** | Modified acrylic resin dispersion |
| **Packaging** | 20 L |
| **Shelf life** | 12 months from date of production |
| **Storage conditions** | Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between -10°C and +40°C. Protect from direct sunlight, heat and moisture. If frozen, SikaCeram® P 302 should be slowly thawed and stirred thoroughly. |
| **Colour** | Blue |
| **Density** | ~1.0 g/l (25°C) |

## APPLICATION INFORMATION

**Mixing ratio**

Can be used as **Undiluted** or **Diluted** with water in 1 : 1 ratio, depending from the substrate type.

**Consumption**

As a general guide:

| | Substrate: | Consumption: |
|---|---|---|
| **Undiluted SikaCeram® P 302** | Gypsum based substrates, anhydrite screeds, mastic asphalt screeds, xylolith screeds, screeds with old adhesive residues. | 80 to 150 ml/m² |
| **Diluted SikaCeram® P 302** (1:1 with water) | Absorbent mineral substrates, e.g. concrete, sand-cement screeds, gauged renders, aerated concrete, limestone or similar. | 1st coat: 100 to 200 ml/m²<br>2nd coat: 50 to 70 ml/m² |

Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions.

**Ambient air temperature**

+5°C min. / +40°C max.

**Substrate temperature**

+5°C min. / +40°C max.

**Tack free time**

Walkable after 30 - 60 minutes, at +23°C and 50 % relative humidity.

Note: Times are approximate, subjected to substrate absorbency and will be affected by changes in ambient conditions, particularly temperature and relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

**Waiting time to overcoating**

Overcoating by itself: Min. 30 minutes, at +23°C and 50 % relative humidity.

Note: Times are approximate, subjected to substrate absorbency and will be affected by changes in ambient conditions, particularly temperature and relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

**Drying time**

Subsequent application: Min. 60 minutes, at +23°C and 50 % relative humidity.

Note: Times are approximate, subjected to substrate absorbency and will be affected by changes in ambient conditions, particularly temperature and relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

## BASIS OF PRODUCT DATA

- All technical data stated in this 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_P302_02_09/v4/03_18/v5/09_19

## FURTHER DOCUMENTATION

General Method Statement

## IMPORTANT CONSIDERATIONS

- In case of partial tiling the entire wall area should be primed (e.g. behind the bathtub or above the tile covering).
- Prior to wallpapering on plaster/render, gypsum plasterboards etc. apply only one coat of SikaCeram® P 302, diluted 1:1 with water (consumption: ~100 ml to 140 ml of diluted mix per m²).
- When wallpapering on substrates which were primed with SikaCeram® P 302 the curing time of the wallpaper paste slows down. Do not paint over woodchip wallpaper etc. before the paste has completely cured.
- SikaCeram® P 302 can be diluted 1 : 2 with water for the first coat on very absorbent substrates, e.g. aerated concrete.
- The recommendations by the gypsum manufacturer as regards the maximum permissible moisture content, layer thickness of gypsum-based substrates and surface properties must be followed.
- Avoid puddles forming when applying SikaCeram® P 302 to floor areas.
- SikaCeram® P 302 is not suitable for priming water-soluble adhesive residues (e.g. sulphite liquor adhesives).
- Adhesive residues of old coverings must be completely removed before laying natural stones.
- Do not apply SikaCeram® P 302 underwater.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The substrate must be sound, clean and able to bear weight. Oil stains, bond-breaking residues such as waterproof adhesive residues, cement paste, and dirt must be thoroughly removed. Newly applied cement screeds must not have a moisture content above 4 %, ground anhydrite and/or gypsum-based screeds not more than 0.5 % (measured with CM meter).

### APPLICATION

Priming and strengthening of gypsum-based substrates, anhydrite, mastic asphalt and xylolith screeds as well as screeds with old adhesive residues (not suitable with water soluble adhesive residues, e.g. sulphite liquor adhesives), as follows:

- Stir SikaCeram® P 302 well prior to the application.
- Apply a sufficient quantity of undiluted SikaCeram® P 302 by brush or float to achieve a uniform coat. Avoid puddles forming!
- Check strengthening and curing by scratching the surface. Do not apply tile adhesive, wallpaper, paint, plaster SikaLevel®-528, SikaScreed®-538 until SikaCeram® P 302 has completely cured.

Priming and strengthening of absorbent mineral substrates, e.g. concrete, sand-cement screeds, gauged renders, aerated concrete, limestone or similar, as follows:

- Stir SikaCeram® P 302 well, dilute in 1 : 1 ratio with water and mix thoroughly.
- Apply a sufficient quantity of diluted SikaCeram® P 302 by brush or float to achieve a uniform coat.
- In case of very absorbent substrates it is recommended to apply a second coat of SikaCeram® P 302, diluted 1 : 1 with water to achieve a more intensive strength and to avoid bubbles forming. Do not apply the second coat until the first one has completely cured.
- After the primer has cured (scratch proof) apply tile adhesive, wallpaper, paint, plaster, SikaLevel®-528 or SikaScreed®-538.

### CLEANING OF EQUIPMENT

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

## 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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