

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-252 Lite Tile Adhesive

A PREMIUM FLEXIBLE LIGHT WEIGHT ADHESIVE FOR TILE & STONE APPLICATIONS

## DESCRIPTION

- A high performance flexible light weight light coloured adhesive for tile & stone installations that is suitable for wall and floor substrates suitable for both internal and external applications. The superior non slump properties are suitable for large format tile and stone to minimise tile lippage.
- SikaCeram<sup>®</sup>-252 Lite Tile Adhesive is ideal for most tiling applications including over heated substrates, over acoustic underlays and is suitable for heavy duty foot traffic, bathrooms, wet areas, kitchens, and main floor areas both residential and commercial installations.
- SikaCeram<sup>®</sup>-252 Lite Tile Adhesive unique "lite" weight technology improves coverage by up to 30% when compared to normal sanded tile adhesives.

## USES

SikaCeram<sup>®</sup>-252 Lite Tile Adhesive is suitable for use on the following substrates;

- Concrete
- Compressed Cement boards
- Ceramic Tile Underlay / Fibre cement sheeting
- Screeds & Mortar beds
- Sika branded membranes suitable for tiling applications
- Gypsum Plasterboard (internal only)
- Sika approved acoustic underlays
- Sika branded cement based levelling underlayment's
- Particle board over sheeted with Ceramic Tile Underlay

SikaCeram<sup>®</sup>-252 Lite Tile Adhesive is suitable for use with the following tile types;

- Porcelain tiles
- Mosaic tiles
- Ceramic tiles
- Natural stone\* including marble, limestone, granite, slate
- Agglomerates / Terrazzo\*
- Glass mosaic tiles.
- Terracotta & Quarry tiles

**\*Not suitable for moisture sensitive or dimensionally unstable stone. Seek further technical advice from Sika Australia.**

## CHARACTERISTICS / ADVANTAGES

- "Lite" weight technology with 30% extra coverage when compared to normal sanded adhesives.
- Smooth, creamy easy application.
- Multi-use, walls, floors, internal & external use.
- Great non slump properties for large format tile and stone to minimise tile lippage.
- Superior bond strength.
- Flexible adhesive.
- Low VOC.

## PRODUCT INFORMATION

Packaging	13.5kg Bags / 64 per Pallet
Appearance / Colour	White to off white coloured powder
Shelf life	Unopened bags can be stored for up to 12 months from date of manufacture.
Storage conditions	Store in dry cool conditions off ground out of direct sunlight. High temperature and humidity may reduce shelf life.
Density	0.74 Kg/L

## APPLICATION INFORMATION

Mixing ratio	5.5 - 6 Litres of water per 13.5kg bag.	
Consumption	<b>Notched Trowel Size</b>	<b>Approx coverage per bag</b>
	6mm	9.5m <sup>2</sup>
	10mm	6m <sup>2</sup>
	Consumption is dependent on the surface substrate flatness, roughness and application technique.	
Substrate temperature	Above 5°C and below 35°C	
Pot Life	3 hours at 23°C and 50% relative humidity	
Open Time	30 minutes dependant on climate conditions and substrate porosity.	
Adjustability time	30 minutes dependant on substrate porosity.	
Applied product ready for use		<b>Wait time</b>
	Grouting on walls	24 hours
	Grouting on Floors	24 hours
	Return to service - dry areas	24 hours
	Return to service - wet areas	3 days
	Return to service - commercial applications	5 days
		Wait times are measured in laboratory conditions at 23°C and 50% relative humidity. Higher temperatures will reduce wait times and lower temperatures will increase times.

## 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

- Test product in an inconspicuous area first
- For other uses not mentioned in this document please visit <https://aus.sika.com/en/home.html> or contact Sika® Australia.
- Tiling works must be tiled in accordance to Australian Standard AS3958.1 "The Guide to Ceramic Tiles".
- SikaCeram®-252 Lite Tile Adhesive is not suitable for constant immersed applications, ie pools
- SikaCeram®-252 Lite Tile Adhesive is not suitable for direct fixing over solvent based waterproofing membranes
- SikaCeram®-252 Lite Tile Adhesive is not suitable for direct fixing over particle board or timber flooring.

Floors must be sheeted with a Ceramic Tile Underlay or reinforced screed laid prior.

- When used externally above 3 meters high use in conjunction with mechanical fixing or shelving angles
- SikaCeram®-252 Lite Tile Adhesive is not suitable for moisture sensitive or dimensionally unstable tile and stone.
- SikaCeram®-252 Lite Tile Adhesive is not suitable for vehicular traffic installation

## 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

## EQUIPMENT

- Personal protective equipment
- Slow speed mixing drill (approx. 500RPM) with mixing paddle attachment
- Gauging Trowel
- Notched trowel
- Mixing Bucket
- Measuring Jug

## SUBSTRATE QUALITY / PRE-TREATMENT

- All tiling works shall be carried out in accordance to AS 3958.1 The guide to Ceramic Tiles.
- Substrates deflection, all substrates must be rigid enough to support the tiling system.

**Concrete Substrates:** must be free from curing compounds, release agents, laitance, oil, grease, dirt, debris and efflorescence. Early aged concrete must be minimum 10 days old and a minimum of 20Mpa.

**Screeds & Mortar beds:** must be installed as per AS 3958.1 and be well compacted with falls to wastes as required. Screed must be a minimum of 24 hours old at 23°C & 50% RH per 40mm of thickness.

**Ceramic tile underlay / cement board substrates:** Must be installed as per manufacturer instructions and specifically designed for tiling.

**Existing tiles:** must be firmly fixed (not hollow or drummy), polished or glossy tiles shall require the glaze removed by mechanical means.

**Contaminated Surfaces:** must be mechanically prepared to expose at least 80% of the original substrate.

**Priming:** Prime substrates with a suitable Sika branded primer.

## MIXING

- Measure to required amount of clean, cool potable water into a clean mixing bucket.
- Slowly add the SikaCeram®-252 Lite Tile Adhesive powder to the water while mixing with a slow speed drill with mixing paddle. Do not mix by hand.
- Stir the mixture for a minimum 3 minutes until it reaches a smooth lump free consistency.
- Allow the mixture to stand for 5 minutes then restir for an additional minute.

## APPLICATION

### Notched Trowel Size Guide

Tile size	Trowel size
Mosaic Tiles	4-6mm
100x100mm	6mm
200x200mm	8mm
300x300mm	10mm
400x400mm and larger*	12mm
Translucent tiles*	12mm
Tiles with uneven backs or lugs*	12mm
Natural Stone*	12mm

**\*Requires the tile or stone to be back-buttered with adhesive.**

### FIXING THE TILES

1. Place a quantity of adhesive onto the prepares substrate. Do not apply more adhesive than can be covered within the open time of the product, usually from a single tile to 1m<sup>2</sup>.
2. Hold the notched trowel at an angle of 60° or greater to the substrate.
3. Spread the adhesive over the area where the tile is to be applied forming straight rows of adhesive.
4. Where back buttering is required use the flat size of the notched trowel to apply a thin 1-2mm layer of adhesive to the back of the tile.
5. Lay the tile into the desired position and move the tile across the adhesive lines to fully bead the tile into the adhesive to ensure no voids are in the adhesive layer. Occasionally lift a tile to ensure sufficient coverage (90-100%) then replace the tile.
6. After laying the tiles at a section at a time remove any residual adhesive from the face of the tile and from the grout joints while the adhesive is still wet.
  - Do not allow the adhesive to skin prior to laying the tile. If skinning occurs remove and replace with fresh adhesive.

### CLEANING OF EQUIPMENT

The adhesive can be cleaned off the tools and equipment while it's still wet. Adhesive that has dried will need mechanical removal.

### 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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### **Product Data Sheet**

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