

PRODUCT DATA SHEET

Ronafix® Tile Set

HIGH STRENGTH TILE BONDING ADDITIVE

DESCRIPTION

Ronafix® Tile Set is designed as an additive for use with ordinary Portland cement and sand to prepare high strength adhesive mortars with beds up to 15 mm thick. Ronafix® Tile Set is ideal for fixing ceramic tiles, paving tiles, brick, slate, marble and stone to cement based surfaces on both internal and external faces.

USES

- High strength bonding for ceramic tiles, slate, terracotta and homogeneous tiles
- Internal and external application
- Swimming pools
- Kitchens, bathrooms, showers, lobbies

CHARACTERISTICS / ADVANTAGES

- Simple to mix and easy to apply
- Waterproof and water resistant
- Superior bond strength
- Conforms to BS EN 12004 C2E Tile Adhesive (HKHA Modified Testing Method)
- Low VOC
- Can contribute to LEED certification

PRODUCT INFORMATION

| | |
|---------------------------|---|
| Packaging | 5 kg drum 30 kg drum |
| Shelf life | 9 months from the date of production |
| Storage conditions | Stored properly in undamaged and unopened original sealed packaging in the temperature range +5 °C to +35 °C. Protect from direct sunlight and frost. |

TECHNICAL INFORMATION

| | | |
|--------------------------|---|---|
| Mortar Mix Design | Ronafix® Tile Set | 1.25 kg |
| | Ordinary Portland Cement ⁽¹⁾ | 2.5 kg |
| | Sand ⁽²⁾ | 2.5 kg |
| | Approximate Yield | 3 litres = 1 m ² @ 3 mm thick |

⁽¹⁾ Cement should comply with BS12

⁽²⁾ Maximum particle size of sand should not exceed 3 mm and moisture content should not exceed 3 %

Indicative Performance of Mortar Mix

| Test | Result | Test Method |
|--|--|---|
| Initial tensile adhesive strength | $\geq 1 \text{ N/mm}^2$ | 8.2 of BSEN 1348 : 2007 ⁽¹⁾ |
| Tensile adhesion strength after water immersion | $\geq 1 \text{ N/mm}^2$ | 8.3 of BSEN 1348 : 2007 ⁽¹⁾ |
| Tensile adhesion strength after heat ageing | $\geq 1 \text{ N/mm}^2$ | 8.4 of BSEN 1348 : 2007 ⁽¹⁾ |
| Tensile adhesion strength after freeze-thaw cycles | $\geq 1 \text{ N/mm}^2$ | 8.5 of BSEN 1348 : 2007 ⁽¹⁾ |
| Open time : tensile adhesion strength | $\geq 0.5 \text{ N/mm}^2$ after not less than 30 min | BSEN 1346 : 2007 ⁽¹⁾⁽²⁾ |

⁽¹⁾ Fine-graded sand of 600 μm shall be used.

⁽²⁾ Back buttering shall be applied on tiles in the test of open time.

APPLICATION INFORMATION

Ambient Air Temperature > 5 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Any debris, surface snots, loose material or mould release oil on the application surface must be removed using appropriate means. Thoroughly saturate the substrate with clean, cold water.

MIXING

Premix the cement and sand first in the mixing vessel for 2 minutes using electric drill and paddle or mechanical pan mixer and then add correct volume of Ronafix® Tile Set into the mixing vessel. Initially, mix continuously for at least 3 minutes using an electric drill with paddle, until all powder has been wetted out and a uniform homogeneous paste is achieved. Allow the mixture to rest for at least 5 minutes and re-mix the material for another 1 minute before applying the tile adhesive mixture to the surface. The mixed tile adhesive should be kept in the mixing vessel and protected from direct sunlight. The mixed tile adhesive should be used within 2 hours of initial mixing.

APPLICATION METHOD / TOOLS

Use a straight edged plastering trowel; spread the tile adhesive onto the surface for tiling. Limit the application of the tile adhesive to an area that will have tiles set to the surface whilst the applied adhesive is still tacky. Use a notched trowel to form ribs into the surface of the applied adhesive. Check adhesive surface for tackiness using a finger, prior to placing tiles. Non-tacky adhesive must be removed. Spread a thin layer of adhesive onto the back of tiles. Set and tap the tiles well into place, ensuring void-free contact into the tacky adhesive. Check for complete adhesive contact by prizing off a tile. Allow the adhesive sufficient time to achieve initial set and hardness; when tiles can no longer be adjusted. Remove all adhesive from the

width and depth of the tile joint. Clean the tile surface using a damp sponge to remove surplus adhesive.

Movement Joints

Form movement joints in accordance with BS 5385. For maximum effect and compatibility, fill joints using Sikaflex® Joint Sealant.

Grouting

For maximum compatibility, durability, effect and protection we strongly recommend the use of Ronafix® Colour Grout to fill the joints between the tiles. We do not recommend leaving the tile joints unfilled and exposed. If "open" joints are an aesthetic requirement, specific installation guidance must be obtained from Sika Technical Department.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

IMPORTANT CONSIDERATIONS

Apply only to sound, prepared substrates. Do not exceed the maximum layer thickness.

Protect freshly applied material from freezing conditions and rain etc.

Do not attempt to dampen the applied adhesive to extend the open time as this interferes with the bond performance.

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.

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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

50 g/litre when tested in accordance with USEPA method 24.

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.

SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk



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