

**raso**

**01/19 148**



## **RASO**

White or grey thixotropic cement-based skimming plaster for preparing indoor and outdoor substrates.

**substrate  
preparation**

**TECHNOKOLLA®**





Blender/  
Plaster pump

20±1%

5-35°C

Smooth

4h

10 mm

# raso



## MAIN FEATURES

- Monocomponent
- Optimum workability
- Optimum bonding capacity
- Layers up to 10 mm thick
- Can be applied with a plaster pump
- "Fine setting coat" finish

## APPEARANCE

White or grey powder

## STORAGE

12 months in dry place

## FIELDS OF USE

- RASO can be used as float finish for conventional or pre-mixed new or weathered lime and cement based plastered substrates both indoors and outdoors.
- Leveling concrete walls.
- Application of skimming coats 2 to 10 mm thick prior to laying ceramic tiles.

## SUBSTRATES

Cement-based plaster, cement-lime mortar, concrete, cellular concrete blocks\*.

\* Layers not more than 5 mm thick and with fiber glass net.

## NATURE OF THE PRODUCT

RASO mainly consists of high-strength cements, selected mineral charges, organic copolymers and specific additives. For further details, ask the technical office for the safety brief or download it from the web site [www.technokolla.com](http://www.technokolla.com).

## APPLICATION

The substrate must be structurally sound and free from dust, dirt, loose material, surface contamination as oil or grease, cement laitance.

Cement substrates should not be subject to shrinkage after the installation of the product, therefore they must be properly cured.

Concrete: the substrate should be prepared by suitable mechanical preparation techniques, such as high water pressure or grit blasting, mechanical or manual breakers. Non impact/vibrating cleaning methods are preferred. Aggregates should be clearly visible on the surface of the prepared area. The edges of the repair area must be cut vertically (90° degree angle) to a minimum depth of 3 mm.

## substrate preparation



## RECOMMENDED ACCESSORIES



Blender



Smooth trowel

Pre-wet the surface of concrete up to saturation. The wetted surface should achieve a dark matt appearance, without glistening: no liquid water must be present on the surface. If the substrate is very absorbent, e.g. screeds or plaster made of sand and cement, it must be thoroughly wetted before being leveled (see introductory part for more details).

### HOW TO PREPARE THE MIXTURE

Blend RASO with approximately 5 l. of clean water per 25 kg bag (20±1%) until mixture is homogeneous and lump-free. Use RASO blended with TC-LAX and water in 1:1 ratio if the substrates are very smooth, such as walls in precast concrete or concrete cast on site. In all cases, use blender at low speed (approx. 500 rpm) since high speed will reduce the mechanical characteristics of the product. Wait about 5 minutes, then stir product briefly again and start applying.

### APPLICATION OPERATIONS

Apply product with a smooth steel knife. Press mortar well down onto substrate to ensure a perfect bond. Wet surface with plenty of water if it is very absorbent or in sunny weather to prevent product from drying out and failing to adhere properly. Do not apply RASO in a single coat if the required layer is more than 5 mm thick. Apply second coat 4-6 h after the first. This makes the product easier to work with and ensures a perfect bond to the surface.

### WARNINGS AND RECOMMENDATIONS

- do not apply to: concrete or vinyl, wood, ceramic, metal floor surfaces
- do not use on substrates subject to rising damp.
- do not apply in coats more than 10 mm thick
- Use RASO blended with TC-LAX and water in 1:1 ratio on walls made of precast concrete or concrete cast on site.
- do not add anything to the product that is not specified in this data sheet
- do not use product once it has started to set by adding water to make it more workable. Prepare fresh mixture.
- do not apply at temperatures lower than 5°C or higher than 35°C

### CONSUMPTION

~ 1.4-1.5 kg/m<sup>2</sup> per mm of thickness.

# raso

| TECHNICAL DATA                     | VALUE                   | REQUIREMENT            | STANDARD   |
|------------------------------------|-------------------------|------------------------|------------|
| Appearance                         | White or grey powder    |                        |            |
| Water required for mixing          | ~ 5 l. per 25 kg bag    |                        |            |
| Curing time                        | 5 min                   |                        |            |
| Pot life                           | * 4 h                   |                        |            |
| Minimum thickness                  | 2 mm                    |                        |            |
| Total maximum thickness            | 10 mm                   |                        |            |
| Can be tiled after                 | *24-36 h                |                        |            |
| Compressive strength after 3 days  | ~ 6 N/mm <sup>2</sup>   |                        | EN 13892-2 |
| Compressive strength after 28 days | ~ 14 N/mm <sup>2</sup>  | ≥ 12 N/mm <sup>2</sup> | EN 13892-2 |
| Flexural strength after 28 days    | ~ 4.5 N/mm <sup>2</sup> | ≥ 4 N/mm <sup>2</sup>  | EN 13892-2 |
| Temperature during application     | min.+5°C, max.+35°C     |                        |            |

\* these time intervals refer to a temperature of 23°C-50% R.H.. They become shorter with higher temperatures and longer at lower temperatures.

## SPECIFICATION

Substrates must be leveled with cement-based skimming plaster such as TECHNOKOLLA's RASO, blended with water alone and applied in coats up to 10 mm thick both on walls and floors.

**Technokolla** reminds you to examine the "notes" document that completes the information in this data sheet. The document can be downloaded in the pdf format from the website [www.technokolla.com](http://www.technokolla.com).

The advice about technical matters in the technical data sheets, or given verbally or in writing by our personnel as part of our customer assistance service, is the result of our best and most up to date experience. Since we are unable to personally modify the conditions in the building site or the way the work is carried out, this information is purely indicative and, thus, binds us neither legally nor in any other way in relation third parties. This information does not relieve the end user from being responsible for testing our products so as to make sure they are fit for the required use. We therefore strongly advise the customer/user to subject Technokolla's products to preventive tests in order to ensure that they are suitable. The end user is also responsible for checking to make sure that this technical data sheet is not obsolete and that more recent editions have not replaced it. Thus, before using our products, you are advised to download the most up to date version of the technical data sheet from our web site [www.technokolla.com](http://www.technokolla.com).



## Sika Italia S.p.A.

Registered Office and Administrative Headquarters: Via L. Einaudi 6,  
20068 Peschiera Borromeo (MI)

Sassuolo Plant (MO): Via Radici in Piano 558, Postal Code 41049

Tel: +39 0536 809711 Fax: +39 0536 809729 [www.technokolla.com](http://www.technokolla.com)