MAPEI

Elastocolor Rasante SF

Trowelable ready-to-use, one-component, fibre-reinforced elastomeric undercoat with high filling properties

WHERE TO USE
Ready-to-use, intermediate smoothing and filling compound, particularly suitable for application by trowel for embedding reinforcement mesh (50-60 grams) and to improve the homogeneity of the substrate and provide flexibility for the **Elastocolor** finish.

Some application examples
- Intermediate elastomeric high-filling and smoothing compound with a rustic finish, to even out irregularities in the substrate before coating with elastomeric paint.
- Intermediate plasto-elastic coat ideal for embedding reinforcing mesh.
- Intermediate elastomeric coat to increase the total thickness and overall flexibility of the **Elastocolor** system.
- **Elastocolor Rasante SF**, applied with a brush, honeycomb-pattern sponge roller or short-haired roller as is or diluted with 5-10% of water, may also be used as a flexible filling and finishing coat similar to quartz paint.

TECHNICAL CHARACTERISTICS
Elastocolor Rasante SF is a cement-free, elastomeric acrylic emulsion-based fibrous, intermediate material admixed with graded sand, blended to a formula developed in MAPEI's own Research and Development Laboratories.
If the substrate has widespread cracking less then 1 mm thick, reinforce **Elastocolor Rasante SF** with special 50-60 g mesh which, after drying, forms a permanent, flexible reinforcement which mimics the expansion of the substrate.

RECOMMENDATIONS
- Do not use **Elastocolor Rasante SF** to waterproof horizontal surfaces, such as terraces (use **Aquaflex System** or **Mapelastic**).
- **Elastocolor Rasante SF** is not suitable to waterproof surfaces which are permanently immersed in water, such as water tanks, purification tanks or canals.
- Protect **Elastocolor Rasante SF** from rain or wind.
- Use only flexible paint for coating over **Elastocolor Rasante SF**.
- Use the product at temperatures between +5°C and +35°C and with R.H. lower than 85%.
- **Elastocolor Rasante SF** may be diluted with water (not solvents).
- **Elastocolor Rasante SF** is not suitable for use as a wearing surface.
- Do not apply **Elastocolor Rasante SF** on cracks wider than 1 mm.

APPLICATION PROCEDURE
Preparation of the substrate
Surfaces to be treated with **Elastocolor Rasante SF** must be perfectly clean, sound and treated beforehand with **Elastocolor Primer** or **Malech**.

Before applying **Elastocolor Primer** or **Malech**, level the substrate and repair damaged areas of the concrete with special shrinkage-controlled mortars from the **Mapegrout** or **Planitop** range.

Elastocolor Rasante SF

Remove all traces of dirt, oil, grease, saline efflorescence, moss algae, which prevent **Elastocolor Rasante SF** from bonding to the substrate.
The choice of cleaning system for old surfaces depends on the type of contamination to be removed, but washing with cold water is usually sufficient.
Cleaning with hot water or steam is particularly suitable if oil or grease needs to be removed.
If deemed necessary, sand-blasting may also be carried out. If the surface is not dirty, a thorough brushing with a stiff brush is sufficient.
Deep cracks wider than 1 mm must first be opened up with a grinder, cleaned and then treated with **Elastocolor Primer** and sealed with a sealant which may be painted over (such as **Mapeflex AC4**).

Preparation of the product

The product is ready-to-use and may be applied with a metal trowel.
If an "orange peel" finish is required, **Elastocolor Rasante SF** may be applied with a honeycomb roller, and the product may be diluted with 5-10% of water according to the finish required. If more than one coat of **Elastocolor Rasante SF** is required, wait at least 24 hours between each coat.

Application of the product

• *With a trowel to embed the reinforcing mesh*

The most suitable mesh is made from fibreglass and weighs approximately 50-60 grams, with a mesh pitch which is approximately 2.7x2.7 mm (refer to MAPEI **Elastocolor Net** data sheet). Apply a first coat of **Elastocolor Rasante SF** on the surface to be treated with a 2-3 mm notched trowel, lay on the mesh and then pass over with a metal float to smooth out the product. After 24 hours, apply a second coat of **Elastocolor Rasante SF**. If the substrate is smooth and regular, a consumption of approximately 700-800 grams/m^2 per coat of **Elastocolor Rasante SF** is sufficient to cover the mesh uniformly in two coats. After the above operation, the surface will have a smooth, regular rustic-effect finish and may be left as a finished surface. If not, the surface may be painted over with the same product (for an "orange peel" or smooth finish) or with **Elastocolor**.
According to the type of application carried out and the level of finish required, **Elastocolor Rasante SF** may be applied with a trowel in one or two coats without inserting the mesh. As a general rule, only one coat is applied if it is used as an undercoat to even out the substrate, and in two coats if it is finished off with **Elastocolor**. Two coats of **Elastocolor Rasante SF** are recommended, however, if it is used both as an undercoat and as a finishing material.

• *"Orange peel" finish*

A wide range of techniques may be used, such as smooth-haired, medium-haired or long-haired rollers, fine, medium or coarse honeycomb-pattern rollers or low-pressure spraying equipment.
The product is extremely versatile. Various finishes can be achieved depending on the application system, tools used and diluition ratio (max 10% water). When applied with a trowel **Elastocolor Rasante SF** will dry to an orange peel finish, which may be further enhanced according to the type of roller used (honeycomb pattern or long-haired). The effect is reduced by increasing the dilution percentage of 5-10% and by changing the tool used to apply the product.
It is not possible to obtain a permanent smooth finish by applying the product with a roller and with 10% dilution. Higher dilution rates could preclude the flexible protection of the surface and/or the covering of the substrate.
The best finish is obtained by applying a first coat of **Elastocolor Rasante SF** with a metal trowel as a smoothing undercoat, followed by a successive finishing coat.
Brush applications are best carried out by applying two coats diluted by 10%. The finish will be a fine-grained rustic type, similar to quartz paint.
The product may also be applied by spraying, with low-pressure equipment with a 1.5 mm spray nozzle and 10-15% dilution. The finish will be a uniform, compact rustic type.

Cleaning

Trowels, brushes, rollers and equipment used to apply the product may be cleaned with water before the **Elastocolor Rasante SF** has dried.

CONSUMPTION

- Trowel: 0.7-0.8 kg/m^2 per coat.
- Brush or roller: 0.3-0.5 kg/m^2 per coat.
- Spraying: 0.8-1.0 kg/m^2 per coat.

The above consumption rates are purely for indication purposes, and largely depend on the roughness of the substrate and the type of application technique used.

PACKAGING

Elastocolor Rasante SF is supplied in 20 kg plastic drums.

STORAGE

24 months in its original packaging in a dry place and at a temperature of between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Elastocolor Rasante SF is not considered hazardous according to current standards. However, if the product is left to dry on the skin, it may cause temporary irritation. The use of protective gloves is recommended. The Safety Data Sheet is available on Request for professional use.

FOR PROFESSIONALS.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

All relevant references of the product are available upon request

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
PROPERTIES	
Appearance:	paste
Dry solids content (%):	approx. 77
Density (g/cm³):	approx. 1.44
Vapour diffusion resistance factor (μ):	134
Equivalent air layer Sd (DIN 52615) on a 1 mm thickness (m):	0.134
Moisture resistance factor W (24) (DIN 52617) [kg/(m²h$^{0.5}$)]:	0.2
Sd·W = 0.134·0.2 [kg/(m·h$^{0.5}$)]: The value of Sd.W is less than 0.1, therefore Elastocolor Rasante SF respects Keunzle's Theory (DIN 18550)	0.027
Elongation on samples with calculated thickness of 0.5 mm of dry product (DIN 53504) (%): – after 7 days at +23°C and 50% R.H.: – after 21 days at +23°C and 50% R.H.:	 100 80
Crack Bridging Ability on samples with calculated thickness of 1.2 mm of dry product (EN 1062-7) (mm): – after 7 days at +23°C and 50% R.H. (test carried out at +23°C): – after 14 days at +23°C and 50% R.H. (test carried out at –10°C):	 1.5 1.5
Resistance to ageing:	excellent
Maximum application temperature:	+80°C
Hazard classification according to EC 99/45:	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
DRYING:	in air
Ready for painting:	24-48 hours

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