



Elastocolor Rasante



Trowellable ready-to-use one-component fibre-reinforced elastomeric filling undercoat

WHERE TO USE

Intermediate filling coat for the **Elastocolor** cycle. **Elastocolor Rasante** can be applied as it is with a trowel or diluted 5 ÷ 10% with water and applied with a brush, fur roller, or porous sponge. The product improves the homogeneity of the substrate and the flexibility of the **Elastocolor** finishing.

Suitable for new or repaired renders, concrete and old plastic coats, even if cracked, as long as they are well bonded.

Some application examples

- Intermediate elastomeric filling smoothing compound which levels the roughness of the substrate before painting with **Elastomeric Paint**.
- Intermediate plastoelastic coat in which reinforcing nets can be embedded.
- Intermediate elastomeric coat that increases the total thickness of the **Elastocolor** cycle, increasing its overall elasticity.
- An “orange skin” texture can be achieved by applying **Elastocolor Rasante** with a fur roller. In this case **Elastocolor Rasante** must be diluted with 5-10% water.

TECHNICAL CHARACTERISTICS

Elastocolor Rasante is a hydro dispersed fibrous intermediate undercoat, based on elastomeric acrylic emulsions, free of cements with permanent elasticity

which creates a minimum thickness of 200/400 microns. While drying, **Elastocolor Rasante** creates a non-woven type reinforcement that follows the expansions of the substrate.

Elastocolor Rasante can be reinforced with a special net in the presence of widespread cracks less than 1.0 mm thick.

Elastocolor Rasante meets the main requirements of EN 1504-9 (“*Products and systems for protecting and repairing concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use and application of systems*”), and the requirements of EN 1504-2 (“*Protection systems for concrete surfaces*”) for class: products for protecting surfaces - coating (C) - protection against the risk of penetration (1.3) (protection against ingress, PI) (ZA.1d) + control of humidity (2.2) (moisture control, MC) and increase in resistivity (8.2) (increasing resistivity, IR) (ZA.1e).

RECOMMENDATIONS

- Do not use **Elastocolor Rasante** to waterproof horizontal surfaces such as terraces (use **Aquaflex** or **Mapelastic**).
- Do not use **Elastocolor Rasante** to waterproof surfaces that will to be permanently immersed in water such as water tanks, purification tanks, canals.

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Example of an application of Elastocolor Rasante with a porous sponge roller

- Do not apply **Elastocolor Rasante** in the case of a rain forecast, or windy days.
- Do not apply **Elastocolor Rasante** on damp substrates, or on substrates which are not fully cured.
- Do not apply **Elastocolor Rasante** if the humidity level is higher than 85% (in any case on dry substrates and not with direct sunlight).
- Do not dilute **Elastocolor Rasante** with solvents.
- Do not apply **Elastocolor Rasante** on surfaces subject to light foot traffic.
- Do not apply **Elastocolor Rasante** on dehumidifying renders, rich in lime or very porous and crumbly.
- Do not apply **Elastocolor Rasante** on cracks wider than 1.0 mm.
- Do not pre-treat the substrate with **Elastocolor Primer** or **Malech** in the

presence of old paint or if the surface is not porous.

- Please refer to the "Safety instructions for preparation and application" section.

APPLICATION PROCEDURE

Preparing the substrate

The surface to be protected with **Elastocolor Rasante** must be perfectly clean and solid and previously treated with **Elastocolor Primer** or **Malech**.

Before applying **Elastocolor Primer**, level the substrate and repair any damaged concrete areas with the special shrinkage controlled mortars from the MAPEI line.

Remove all dirt, dust, grease, oils, efflorescence, moss and weeds that prevent **Elastocolor Rasante** from anchoring to the substrate.

The choice of cleaning method for old surfaces depends on the type of dirt.

Manually cleaning with cold water is enough. Cleaning with hot water or steam is especially suitable when in presence of oil or grease.

Sandblasting can also be used. If the surface is not dirty, a good cleaning with a broomcorn

TECHNICAL DATA (typical values)

Conforms to the following standards:

- products certified according to EN 1504-2 (Surface protection systems for concrete), 2+ and 3 compliance certification system
- classes according to EN 1504-2: products for protecting surfaces - coating - protection against the risk of penetration (1.3) (ZA.1d) + control of humidity (2.2) and increase in resistivity (8.2) (ZA.1e) (C, PI-MC-IR principles)

PRODUCT IDENTITY

Consistency:	thick liquid
Colour:	white or requested colours that can be obtained with ColorMap®
Density (EN ISO 2811-1) (g/m³):	1.35
Brookfield Viscosity (mPa·s):	ca. 39,500 (rotor 6 - 20 rpm)
Dry solids content (EN ISO 32511) (%):	ca. 67
Storage:	24 months in original packing
Hazard classification according to EC 1999/45:	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3209 1000 00

APPLICATION DATA

Dilution rate:	by trowel: ready-to use; by brush or by roll: +5-10% of water
Waiting time between each coat:	at least 24 hours under normal humidity and temperature conditions, and in all cases, when the previous layer is completely dry
Application temperature range:	from +5°C to +35°C
Consumption (kg/m²):	0.4-0.7 (per coat)

brush and dusting with compressed air is sufficient.

Deep cracks with widths greater than 1.0 mm must be enlarged with a suitable mechanical tool, cleaned, treated with **Elastocolor Primer** and sealed with a sealant that can be painted over with water based products before applying two coats of **Elastocolor Rasante** reinforced with a special net (**Elastocolor Net**).

Preparing the product

The product is ready-to-use as a smoothing compound if applied with a metal float.

To increase the filling capability of the product, up to 30% sand, diameter size 0.1-0.3, can be added.

To make application on continuous surfaces easier, use a brush or roller. The product must be diluted beforehand with 5-10% water.

Usually a single coat of **Elastocolor Rasante** is enough. If more coats are needed, wait at least 24 hours between each coat, and in all cases, only when the previous coat is completely dry.

Use the airless system when applied by spray, after applying the first coat with a brush or roller.

Examples of the final effect and finishes obtained using **Elastocolor Rasante** are illustrated in the "MAPEI colours in Design" catalogue.

Cleaning

Brushes, rollers or trowels must be cleaned with water before **Elastocolor Rasante** dries.

CONSUMPTION

- **Practical consumption:**
0.4-0.7 kg/m² per coat.
- **Theoretical yield:**
1.35 kg/m² in two coats per 0.5 mm of dry thickness.

PACKAGING

20 kg drums.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Elastocolor Rasante is not considered hazardous according to current norms and guidelines regarding the classification of preparations. However, we recommend the use of protective gloves and goggles, and to take the usual precautions for handling chemical products. The safety data sheet is available upon request for professional users.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

All relevant references for the product are available upon request and from www.mapei.com

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PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 1504-2, 2+ AND 3 COMPLIANCE CERTIFICATION SYSTEM CLASSES ZA.1d + ZA.1e (C, PI - MC - IR principles)

STANDARD	TEST	RESULTS AND CONFORMITY TO REQUIREMENTS	
UNI EN ISO 1770	coefficiente of thermal expansion	result/class:	in conformity (coeff $\leq 0.00003 \text{ K}^{-1}$)
UNI EN ISO 2409	oblique cut	result/class:	GT1, in conformity (GT2)
UNI EN 1062-6	permeability to CO ₂	μ :	611,487
		s_D (m):	245
		dry thickness according to s_D (m):	0.00040
		result/class:	in conformity ($s_D > 50 \text{ m}$)
UNI EN ISO 7783-1.2	permeability to water vapour	μ :	1417
		s_D (m):	0.6
		dry thickness according to s_D (m):	0.00040
		result/class:	I ($s_D < 5 \text{ m}$)
UNI EN 1062-3	capillary absorption and permeability to water	w [$\text{kg}/(\text{m}^2\text{h}^{0.5})$]:	0.02
		result/class:	in conformity ($w < 0.1$)
UNI EN 1062-11 4.1	thermal compatibility: ageing: 7 days at +70°C	result/class:	in conformity (adherence $\geq 0.8 \text{ N}/\text{mm}^2$)
UNI EN 13687-1	thermal compatibility: freeze-thaw cycles with immersion in de-icing salts	result/class:	in conformity (adherence $\geq 0.8 \text{ N}/\text{mm}^2$)
UNI EN 13687-2	thermal compatibility: thunder-shower	result/class:	in conformity (adherence $\geq 0.8 \text{ N}/\text{mm}^2$)
UNI EN 13687-3	thermal compatibility: thermal cycles without immersion in de-icing salts	result/class:	in conformity (adherence $\geq 0.8 \text{ N}/\text{mm}^2$)
static UNI EN 1062-7	crack resistance	crack-bridging ability (μm):	1427
		result/class:	A4 ($> 1.25 \text{ mm}$)
dynamic UNI EN 1062-7	crack resistance	result/class:	B3,1
UNI EN 1542	direct traction adherence test	result/class:	in conformity (adherence $\geq 0.8 \text{ N}/\text{mm}^2$)
EN 13501-1	reaction to fire	euroclass:	B s1 d0
UNI EN 13036-4	resistance to skid marks	result/class:	II (dry internal surface) (> 40 dry units)
UNI EN 1062-11:2002 4.2	artificial exposure to atmospheric agents	result/class:	in conformity
UNI EN 1081	anti-static behaviour	result/class:	I (explosives) (electrical resistance $> 10^4 \text{ e} < 10^6 \Omega$)
	hazardous substances	result/class:	in conformity

FURTHER PERFORMANCE CHARACTERISTICS ACCORDING TO EN 1504-2 REGARDING REQUIREMENTS FOR CLASSES ZA.1d + ZA.1e

STANDARD	TEST	RESULTS AND CONFORMITY TO REQUIREMENTS	
UNI EN ISO 5470-1	abrasion resistance	result/class:	in conformity (Δ weight $< 3000 \text{ mg}$)
UNI EN ISO 6272-1	impact resistance	result/class:	class II ($\geq 4 \text{ Nm}$)
UNI 7928	diffusion of chloride ions	penetration (mm):	0.0
UNI EN ISO 2812-1 - NH ₄ ⁺	chemical resistance	result/class:	in conformity