



Elastocolor Waterproof

Flexible, acrylic resin-based paint in water dispersion, for protecting structures waterproofed with Mapelastic or Mapelastic Smart in direct, permanent contact with water



WHERE TO USE

Internal paint for treatment of swimming pools, and all surfaces coated with **Mapelastic** or **Mapelastic Smart**, where the waterproofing layer requires covering with a compatible, flexible and durable protective finish, suitable for direct, permanent contact with water. Provides protection against direct contact with rainwater on horizontal, concrete surfaces which will not be subjected to foot traffic, and which are waterproofed with **Mapelastic** or **Mapelastic Smart**: **Elastocolor Waterproof** increases chemical resistance to acid rain and thanks to suitable coloration it reduces the absorption of sun radiation and the consequential rise in surface temperature.

Elastocolor Waterproof increases chemical resistance to acid rain. Thanks to suitable coloration it reduces the absorption of sun radiation and the subsequent surfaces' heating.

Some application examples

- Painting swimming pools after applying **Mapelastic** or **Mapelastic Smart** when the internal finish is not to be tiled.
- Painting horizontal concrete surfaces which will not be walked on, such as flat roofs, after applying a protective, waterproofing layer of **Mapelastic** or **Mapelastic Smart** against rainwater.
- Painting general cementitious substrates as a protective and resistant finish against contact with water after treatment with **Mapelastic** or **Mapelastic Smart**.

TECHNICAL CHARACTERISTICS

Elastocolor Waterproof is a paint for external use, composed of an acrylic resin dispersed in water. It is flexible, protective and is perfectly compatible as a coloured finishing layer with **Mapelastic** or **Mapelastic Smart**.

Elastocolor Waterproof may be used as the final finishing layer wherever the application of a paint with high resistance to water is required, after waterproofing with cementitious-based products.

Elastocolor Waterproof is resistant to all climatic conditions and aggressive attack of smog and sunlight, and provides a long-lasting protective coat for the substrate.

Elastocolor Waterproof increases resistance to acid rain, and choosing a suitable colour, reduces the absorption of solar radiation and overheating of the surface.

Elastocolor Waterproof protects the substrate, and gives it an attractive, smooth and uniform appearance. It is available in 6 standard colours. Further colours may also be created according to individual samples by using the **ColorMap**® automatic colouring system.

RECOMMENDATIONS

Elastocolor Waterproof is not a membrane and is not a substitute for cementitious-based waterproofing products such as **Mapelastic** or **Mapelastic Smart** or conventional bitumen and cementitious elastomeric membranes, generally used for waterproofing horizontal and vertical surfaces.



Elastocolor Waterproof



Application of Elastocolor Waterproof with a roller

Elastocolor Waterproof must not be used directly on substrates subject to negative water pressure. The suitability of **Elastocolor Waterproof** may be assessed once these types of surface have been suitably prepared.

We recommend that the **Elastocolor Waterproof** layer is checked periodically for wear, and seasonal or annual maintenance of the treated surfaces should be taken into consideration.

Elastocolor Waterproof is not suitable for dressing tanks containing drinking water. Painting over other types of finish, such as chlorinated rubber-based enamel for example, must be assessed for each finish by taking into account the extent of wear to the old paintwork, the compatibility between the various layers and, last but not least, by preparing the surface correctly. The preparation must include a thorough degreasing followed by sanding to roughen the surface as much as possible and may include applying of **Mapelastic** or **Mapelastic Smart** (refer also to the "Maintenance Operations" section).

APPLICATION PROCEDURE

Preparation of the substrate

It is important that the substrate is prepared correctly to get good results and to guarantee that the application is durable.

New surfaces or surfaces which have been patched-up with repair mortar must be well cured, perfectly clean, sound and dry. Remove all traces of oil and grease and parts which are not well-attached from the surface. Seal any cracks which are present and repair any deteriorated areas.

Seal off the porosity and smooth off any uneven parts in the substrate. When applying in swimming pools, the bottom and perimeter walls must be prepared as described in the MAPEI technical notebook "Pool Construction" up to the waterproofing phase carried out using **Mapelastic** or **Mapelastic Smart**.

In all other cases, apply a suitable waterproofing layer with **Mapelastic** or **Mapelastic Smart**, following the instructions on the specific technical data sheet. At least 20 days after applying **Mapelastic** or **Mapelastic Smart**, apply **Elastocolor Waterproof**, which requires no primer. In this case, complete preparation of the substrate by applying a base coat of **Elastocolor Waterproof** diluted with 5-10% of water.

Preparation of the product

Elastocolor Waterproof is ready to use. Dilute **Elastocolor Waterproof** with approximately 5-10% of water for the base coat only. For successive coats, use the product as it is. Carefully blend the product before use, using a low-speed drill if required, avoiding the entrapment of air.

Application of the product

Apply **Elastocolor Waterproof** using traditional techniques, such as a brush or a roller.

In the case of protective coatings, apply at least three coats of **Elastocolor Waterproof** (one base coat and two finishing coats).

Under normal humidity and temperature conditions, wait 24 hours between each coat. Protect the surface from rain after painting, to avoid water coming into contact after the first phase of applying **Elastocolor Waterproof** and to avoid compromising bonding whilst it is still not completely dry.

Filling tanks

Tanks must be filled after at least 20 days of applying the final layer, if drying is carried out under normal temperature and humidity conditions.

Maintenance operations

If after a certain period, which is generally after 1-2 years for tanks which contain water, a further coat of **Elastocolor Waterproof** is required, proceed as follows:

- wash with water and detergent or water and ammonium until all dirt, grease and oil is completely removed from the surface. If possible, use a brush or other suitable lightly abrasive tool. The use of water jets, or other such high-pressure equipment or cleaning lances, must be carefully assessed beforehand to avoid detaching **Elastocolor Waterproof**, even in areas where it seems well bonded;
- rinse well with plenty of water to remove all cleaning products from the surface;
- roughen the surface by sanding;
- Apply one or more coats of neat **Elastocolor Waterproof** directly to the whole surface.

Precautions to be taken during preparation and application

- Do not apply **Elastocolor Waterproof** if it is about to rain or in windy weather.
- Do not apply on wet or damp surfaces, the bonding of **Elastocolor Waterproof** may be compromised.
- Do not apply if the temperature is lower than +10°C or on surfaces with a temperature of more than +35°C.
- Do not apply if the humidity is higher than 85%.
- Do not apply **Elastocolor Waterproof** on crumbly or dusty substrates.
- Do not apply **Elastocolor Waterproof** on bitumen membranes, PVC or on other non-cementitious, synthetic materials used as a waterproofing layer.

Cleaning

Brushes, rollers and other tools used for applying the product may be cleaned with water before **Elastocolor Waterproof** has dried off.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

DESCRIPTION

Water-based flexible, acrylic resin-based paint for protecting structures waterproofed with **Mapelastic** and **Mapelastic Smart** in direct, permanent contact with water.

WHERE TO USE

Painting the inside of swimming pools after a waterproofing treatment with **Mapelastic** or **Mapelastic Smart**, to give a durable, protective finish, against direct, permanent contact with water. Protection against direct contact with rainwater on horizontal, concrete surfaces which will not to be walked on, and which are waterproofed with **Mapelastic** or **Mapelastic Smart**.

CHARACTERISTICS

Appearance:	thick liquid
Dry solids content (%):	63
Density (g/cm³):	approx. 1.30
Theoretical yield (m²/kg):	1-2
Moisture abrasion DIN 53778 (cycles):	> 10,000
Elongation at break after 15 days at +23°C (%):	approx. 220
Elongation at break after 60 days at +23°C (%):	approx. 200
Elongation at break on a Mapelastic after 1,000 hours of accelerated ageing with a Weather-Ometer according to ASTM G155 cycle 1 (%):	approx. 21
Colour variation after 1000 hours exposure to a Weather-Ometer (according to ASTM G 155 cycle 1) standards (white):	$\Delta E < 1$
Vapour diffusion resistance coefficient (DIN 52615) (μ):	4,500
Resistance to passage of vapour relative to a 0.10 mm-thick dry coat Sd (m) (DIN 52615):	0.45
Capillary action water absorption coefficient W₂₄ (kg/(m²h^{0.5})) (DIN 52617):	0.03
Sd·W = The value of Sd·W is less than 0.1, therefore Elastocolor Waterproof respects Kuenzle's Theory (DIN 18550)	0.013 kg/(m·h ^{0.5})
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

PREPARATION

Ready to use. Dilute **Elastocolor Waterproof** with approximately 5-10% of water for the base coat only.

DRYING:

by air

Ready for painting over:

24 hours



Example of a gutter waterproofed with Mapelastic Smart and coated with Elastocolor Waterproof

Elastocolor Waterproof

CONSUMPTION

0.5-0.7 kg/m² (for one base coat and two finishing coats).

PACKAGING

Elastocolor Waterproof is supplied in 20 kg plastic drums.

STORAGE

24 months if stored unopened in a dry place away from sources of heat and at a temperature of between +5°C and +30°C. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Elastocolor Waterproof is not considered as dangerous according to the European regulation regarding the classification of preparations. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products are recommended. If the product is applied in a closed area, make sure that it is well ventilated.

The Safety Data Sheet is available upon request for professional users.

PRODUCT FOR PROFESSIONAL USE.

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
for the product are available
upon request and from
www.mapei.com**



Detail view of a swimming pool dressed with Elastocolor Waterproof

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