



# MAXELASTIC®

## WATERPROOF ELASTIC SINGLE COMPONENT COATING FOR ALL TYPES OF ROOFS

### DESCRIPTION

**MAXELASTIC®** is an elastic acrylic coating, specially formulated for all types of roofs. It is supplied in the form of a water-based single component thixotropic paste, ready to use. Once polymerised it is transformed into an UV-rays resistant and non-degradable elastomer, providing a 100% waterproof coating.

### APPLICATIONS FIELDS

- Waterproofing of all types of roofs and terraces.
- Waterproofing, protecting and filling in facades, partition walls, joints between chimneys and tiles.
- Elastomeric protection against carbonation of concrete roofdecks.
- Treatment and waterproofing of joints in facades and roofs.
- Protection of polyurethane foam insulation from exposure to UV rays.
- Waterproofing, protection and repair on tiles, metal coatings and fibre-cement.

### ADVANTAGES

- Excellent carbon dioxide diffusion barrier for concrete. Very high resistant to penetration of carbon dioxide, prevents the corrosion of reo bars caused by carbonation.
- Good adhesion on substrates such as concrete, mortars, bricks, tiles, metal surfaces, etc.
- Easy to apply , does not require skilled applicators.
- Withstands weathering and UV rays. Excellent colour retention.
- Excellent elasticity, it provides a continuous coating which does not need joints, filling and sealing all pores and cracks.

- Maintains flexibility in a wide temperature range, expands and contracts along with the substrate to which it is applied.
- Different colours, decorative finish.
- Non-toxic and non-flammable, solvent-free. Environmentally friendly.

### APPLICATION INSTRUCTIONS

#### Surface preparation

The surface to be coated must be sound, dry and clean, free from dirt, remains of paints, gypsum, efflorescence, greases, oils, as well as de-moulding agents, curing agents or any product that may affect the adhesion. Remove any loose particles or unsound elements. All surface damages such as defects, cavities, honeycombs, peelings should be filled with a repair mortar. Remove all concrete around structural reinforcement affected by corrosion. Clean reinforcements of rust and scale and then, coat with **MAXREST® PASSIVE** oxide converter and anti-corrosive protection (Technical Bulletin n° 12). To repair the area, use a structural mortar such as **MAXREST®** (Technical Bulletin n° 04).

#### Application

**MAXELASTIC®** is supplied ready to use. Before application, stir the product in order to get a homogeneous paste and colour uniformity. **MAXELASTIC®** can be applied by brush or roller. When using an airless spray, dilute with a sufficient but minimum amount of water to allow the easy application of the product.

**Waterproofing.** Apply a first layer of **MAXELASTIC®** with an approximate consumption from 1,0 to 1,5 kg/m<sup>2</sup> per layer. Allow at least 5 and 18 hours to dry, depending on environmental conditions and then apply the second layer in perpendicular direction to first one until the required thickness is achieved. On porous surfaces, is

recommended to dilute the first layer of **MAXELASTIC** with 20-30% of water.

- *Expansion joints.* Once the joint is opened up and clean, apply a thick layer with 1,5 kg/m<sup>2</sup> of **MAXELASTIC®** and then spread a strip of 6 – 8 cm wide glass fibre mesh (of at least 50 g/m<sup>2</sup>) into the fresh coating ensuring that the keep fibre is completely embedded. Once it dries, apply a second layer with 1,5 kg/m<sup>2</sup> of **MAXELASTIC®**. Both the elasticity of the product and the mesh will allow the joint to move without cracking the waterproof coating.
- *Cracks.* Once crack is opened up and clean, fill it with **MAXELASTIC® STONE** or a mixture of one part of **MAXELASTIC®** and one part of fine silica sand (ratio1:1). Also, application of a sealant such as **MAXFLEX® 100 LM** (Technical Bulletin n° 04) is recommended. Finally, once it is completely cured (4 days at 20 °C), cover the area following the same procedure as used for expansion joints.
- *Terraces and roof with frequent pedestrian traffic.* Once the surface is prepared, apply a first layer of **MAXELASTIC®** with a consumption of 1,5 kg/m<sup>2</sup> and then, cover it with a glass fibre mesh of at least 50 g/m<sup>2</sup>. Allow to dry and apply a second layer of **MAXELASTIC®** to make a waterproof membrane. Finally, once the last layer is dry, apply a thick top layer of **MAXELASTIC® STONE** (Technical Bulletin n° 43) with a thickness about 2 – 3 mm to provide a protective layer resistant to abrasion.

#### **Application conditions**

Do not apply **MAXELASTIC®** below 5 °C or when such temperatures are expected to drop below 5°C within 24 hours after application. Do not apply the coating on frozen or frosted surfaces.

Do not apply if rain is expected within the first 24 hours.

#### **Cleaning**

All tools and equipments must be cleaned immediately after use. Once **MAXELASTIC®**

dries, it can only be removed by mechanical means.

## **CONSUMPTION**

For waterproofing terraces and roofs, **MAXELASTIC®** is applied in two layers with an approximate consumption from 2,0 to 3,0 kg/m<sup>2</sup>, which corresponds to 1,0-1,5 kg/m<sup>2</sup> per layer respectively. An application of 1,5 kg/m<sup>2</sup> provides an approximate film thickness of 1,0 mm. For facades or vertical walls, a coating with at least 0,7 kg/m<sup>2</sup> approximately should be applied.

This consumption may vary depending on porosity and substrate conditions. A preliminary test on-site is recommended to determine consumption exactly.

## **PACKAGING**

**MAXELASTIC®** is supplied in 25 and 5 kg drums. It is available in white, grey, green, red and black colour. Other special colours are manufactured by request.

## **STORAGE**

Twelve months in its original unopened packaging. It must be stored in a dry and covered place, protected from frost and exposure to direct sunlight, with temperatures above 5 °C.

## **SAFETY AND HEALTH**

**MAXELASTIC®** is non-toxic, but skin and eye contact must be avoided. Safety goggles and protective gloves should be used during application. In case of skin contact, wash affected areas with soap and water. In case of eye contact rinse thoroughly with clean water but do not rub. If irritation continues, seek medical attention.

Safety Data Sheet for **MAXELASTIC®** is available by request.

Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

## TECHNICAL DATA

Appearance	Single component homogeneous paste
Solid content (%)	54,4 approx.
Density (kg/l)	1,23 approx.
Viscosity (cps)	32.000 approx.
Application conditions, T (°C)/R.H. (%)	>5 / <90
Approximate consumption per layer*/total application (kg/m <sup>2</sup> )	1,0-1,5/2,0-3,0
Elongation at break, UNE 53.165 (%)	315
Tensile strength, ISO 37/1994 (MPa)	2,45
Shore A hardness	35
Resistance to CO <sub>2</sub> diffusion. - Equivalent air barrier thickness: - CO <sub>2</sub> diffusion:	R = 632 m (R>50 m by Klöpfer) DCO <sub>2</sub> = 0,024 x 10 <sup>-6</sup> m/s

\*Consumption will depend on porosity and substrate conditions.

## GUARANTEE

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