



MAXELASTIC® POLY PRIMER

HOT-APPLIED POLYURETHANE PRIMER FOR POLYUREA SYSTEMS

DESCRIPTION

MAXELASTIC® POLY PRIMER is a hot applied, two-component, 100% solid, polyurethane primer suitable for polyurea systems.

Once applied, provides an elastic coating, specially designed as urgent primer for polyurea waterproofing systems. **MAXELASTIC® POLY PRIMER** allows its application in a huge range of temperatures and over different substrates.

APPLICATION FIELDS

- Primer for the **MAXELASTIC® POLY** hot-applied polyurea waterproofing system in:
 - roofs, terraces, slabs, walls, garden areas, parking, pavements and other applications in building construction,
 - road and train bridge decks,
 - water reservoirs, channels, waste water treatment plants and hydraulic constructions generally, and
 - chemical compounds reservoirs, cooling fluids in power transformers, gas tanks, silos, etc.

ADVANTAGES

- Fast curing.
- Very good adherence over different substrates: cement, concrete, fibre cement, polyurethane, wood, ceramic, stoneware, etc.
- Very good elasticity properties, tear resistance and wear resistance. Good crack bridging capability.
- High yield for spray hot means.
- 100% solids, non-toxic, and environmentally friendly.

APPLICATION INSTRUCTIONS

Surface preparation

Surface to be coated must be structurally sound, firm, without cement laitance, etc. It must be dry, clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form

release agents, dust, gypsum, organic growth or any other contaminants that may affect to adhesion. Surface moisture content should not exceed 5%.

For cleaning substrate, preferably in case of the smooth and/or poorly absorbent substrates, use sand blasting or high-pressure water cleaning methods, not being desirable aggressive mechanical means.

Concrete and cement-based mortar substrates

Substrate must be structurally healthy and sound, with a minimum tensile strength of 1,5 N/mm², free of unsound particles, cement laitance and as uniform as possible. All voids, holes, honeycombs, cavities, cold joints, tie holes, and static cracks without movement must be repaired with **MAXREST®**.

Expansion joints or cracks subject to movements once opened and clean, should be treated with a suitable elastomeric sealant from **MAXFLEX®** range.

Stoneware and ceramic substrates

Pieces and surfaces to be coated must be checked before the application. Replace or repair all these pieces which may present adhesion failures to the underlying substrate. Apply a soft sanding in order to provide a light roughness to the surface.

Application

MAXELASTIC® POLY PRIMER is supplied in two-component sets for its application by hot spraying means. Apply one coat with an estimated total consumption of 0,3-0,5 kg/m².

In case of spread the primer surface with silica aggregate, avoid an excess of aggregate in order to avoid the emergence of air bubbles.

Application conditions

Substrate and ambient application temperatures are from -5°C to 40°C. Do not apply when such temperatures are expected to fall below the minimum value within 24 hours after application. Do not apply to frozen or frost-covered surfaces.

Substrate and ambient temperature must be at least 3°C higher than dew point. Do not apply with R.H. higher than 85%. Measure the relative humidity and dew point before applying the product for applications carried out in proximities of marine environment.

CONSUMPTION

Estimated consumption for **MAXELASTIC® POLY PRIMER** is 0,3-0,5 kg/m², applied in one single coat. Estimated consumption may vary depending of substrate's porosity, as application method as well. Perform a previous test on site in order to determine the exact consumption.

IMPORTANT INDICATIONS

- Surface moisture content must be below 5%. Allow substrate to dry enough after rain, water contact, damp, dew, condensation, etc., as well as after washing surface.
- Check the mixing ratio and dosage frequently. Do not dilute under any condition.
- Once product hardens, it can only be removed by mechanical means.
- For other uses not specified on this Technical Bulletin or further additional, consult the Technical Department.

PACKAGING

MAXELASTIC® POLY PRIMER is supplied in pre-weighed two-component sets of 430 kg. Component A in 210 kg drum and Component B in 220 kg drum.

STORAGE

Twelve months in its unopened and undamaged original sealed packaging. Store in a cold, dry and covered place, protected from moisture, frost and direct sunlight, with temperatures between 5°C and 35°C. Storage at temperatures above 35 °C may lead to an increase of viscosity.

SAFETY AND HEALTH

MAXELASTIC® POLY PRIMER is not a toxic product but direct contact with skin and eyes must be avoided. Use proper clothes, rubber gloves and safety goggles during application. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Material Safety Data Sheet for **MAXELASTIC® POLY PRIMER**.

Disposal of the product and its packaging should be carried out according to the current official regulations and it is the responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics		
	Component A	Component B
Density, (g/cm ³)	1,00 ± 0,1	1,07 ± 0,1
Viscosity, UNE-EN ISO 2555, (cP)	600	400
Solids content, (%)	100	
Mixing ratio, A:B by weight (kg:kg) / by volume (l:l)	100:104 / 100:100	
Application and curing conditions		
Temperature / Relative Humidity for substrate and ambient, (°C / %)	-5 - 40 / <85	
Curing time at 20°C, (h)	24	
Gelling time, (min)	30	
Open time to be covered at 20°C: min-max, (h)	2 - 12	
Application Temperature/Pressure, (°C / bar)	60-65 / 180-200	
Cured product characteristics		
Tensile strength, ASTM D 412, (N/mm ²)	23	
Elongation at break, ASTM D 412, (%)	280	
Shore hardness, DIN 53 05, (Shore A/D)	90 / 50	
Abrasion resistance, DIN-EN-ISO 5470, (kg/mg/cycle)	20	
Tear strength, DIN 53515, (kN/m)	55-60	
Reaction to fire (outside), UNE-EN 13501-5:2007	Class: Broof (t1) Euroclass F	
Consumption*		
Consumption per coat / total application, (kg/m ²)	0,3-0,5	

* These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

GUARANTEE

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