

POLYPROOF MAX COLD

PRODUCT DESCRIPTION

Two-component, self-leveling polyurea composition, manually applied and fast-curing.

RECOMMENDED USE

Indicated for waterproofing of flat roofs, including ponded roofs, balconies and terraces. Also recommended for waterproofing concrete structures exposed to outdoor environments, as well as for the simple and fast repair of hot-applied polyurea membranes.

CERTIFICATIONS AND APPROVALS

Product certified in accordance with ETE/ETA No. 17/0509, with a declared durability of 10 and 25 years, in accordance with ETAG 005.

PACKAGING

Component A	Packaging containing 25 kg.
Component B	Packaging containing 1.5 kg.

CHARACTERISTICS

Color	Gray.
VOC content	217.10 g/l
Volume Solids	85 ± 2% (ISO 3233)
Dry Film Thickness	1.000 µm - 2.000 µm
Theoretical Coverage	Consumption of 1 kg/m ² , applied without dilution, to achieve a dry film thickness of 1,000 micrometers (1.0 mm). Application loss factors are not considered.
Specific Gravity	1.3 g/cm ³
Note	Exhibits rapid color change when exposed to sunlight. A light gray membrane may turn greenish gray within a short period. This change does not affect its mechanical properties.

DRYING

Drying	5 °C	23 °C	35 °C
Touch	7 hours	90 min	1 hour

PHYSICOCHEMICAL CHARACTERISTICS

Adhesion (ASTM D 4541)	Concrete - 2.0 MPa Ceramic - 2.6 MPa Polyurethane foam - 1.4 MPa
Tensile Strength (ASTM D 412)	5,7 MPa
Shore A Hardness (ASTM D 2240)	75
Elongation (ASTM D 412)	600 %
Tear Resistance (ASTM D 624)	34,0 N/mm ²

PRODUCT	CONCENTRATION (%)	TEMPERATURE	GRADUATION	PRODUCT	CONCENTRATION (%)	TEMPERATURE	GRADUATION
DISTILLED WATER	-	176 °F	R	SODIUM HYDROXIDE	-	176 °F	R
SALT WATER	-	176 °F	R	HYDROGEN PEROXIDE	33%	176 °F	R
DIESEL	-	176 °F	R	AMMONIA	3%	176 °F	R
XYLENE	-	176 °F	L	SULFURIC ACID	10%	176 °F	R

ETHYL ACETATE	-	176 °F	L	HYDROCHLORIC ACID	-	176 °F	L
ISOPROPYL ALCOHOL	-	176 °F	L	SODIUM HYPOCHLORITE	-	176 °F	R
				Graduation: R - Resistant L - Limited resistance			
For more details regarding chemical resistance, consult WEG's technical department.							

SURFACE PREPARATION

Standard Surface Preparation

The performance of this product is related to the degree of surface preparation. In case of doubts, for more information, consult WEG's Technical Department.

The substrate shall be sound, clean, and dry, free from dust, material residues, loose particles, or laitance, and shall also be free from grease, oils, fats, and moss growth.

Note: If rising moisture in the substrate is suspected, and to prevent blister formation on the surface, the application of two coats of epoxy primer is recommended: the first without mineral filler, acting as a vapor barrier, and the second with aggregate broadcast.

Concrete Surfaces

To ensure proper penetration and adhesion, the substrate shall meet the following requirements.

It shall be properly leveled, free from irregularities that may compromise the uniformity of the application.

It shall be sound and compact, with a minimum pull-off strength of 1.5 N/mm², verified by a pull-off adhesion test.

It shall have a smooth and uniform surface texture, providing a homogeneous substrate for the application of the system.

It shall be free from cracks and fissures. If present, they shall be properly treated and repaired before application.

For the repair of hot-applied polyurea waterproofing membranes, adequate adhesion shall be ensured by sanding an area extending at least 3 cm beyond the repair zone, followed by cleaning with a suitable solvent and applying one coat of PU Activator Primer (approximate consumption: 100 g/m²).

APPLICATION PREPARATION

Mixing

Homogenize each component separately using suitable mixing equipment.

Slowly pour Component B into Component A, mixing under low-speed agitation. Allow the mixture to stand for a few minutes before application.

The addition of Component B affects the viscosity and solids content of Component A. This effect shall be considered when calculating the product consumption and the applied film thickness.

After mixing, Polyproof Max Cold shall be used in its entirety.

Mixing Ratio

By weight: 100 A x 6 B.

Pot Life

1 h

The shelf life of the mixture is reduced as the ambient temperature increases.

The pot-life test of the mixture is carried out according to ABNT NBR 15742; however, different volumes of paint prepared at once, combined with varying ambient and paint temperatures, will affect the mixture's shelf life, potentially resulting in outcomes different from those stated in this technical bulletin.

APPLICATION METHODS

Roller

Apply using a roller or airless spray equipment. The use of a spiked roller after application is recommended to eliminate entrapped air and prevent bubble formation. The



consumption may reach up to 2 kg/m².

When applied by airless spray, the specified dry film thickness shall be achieved by applying at least three coats, with a consumption of 0.5 to 0.7 kg/m² per coat, in order to prevent defects caused by solvent entrapment.

For the repair of hot-spray polyurea waterproofing membranes, reinforcement of the repaired area with fiberglass mesh is recommended. After drying, light sanding before applying the aliphatic topcoat helps improve the membrane's aesthetic appearance.

Notes

RE-APPLICATION

The required thickness can usually be achieved in a single coat. If necessary, a second coat may be applied immediately afterwards. In any case, do not wait more than 2 hours before applying the second coat, as longer intervals may lead to adhesion issues. The same recommendation applies to any polyurethane (PU) topcoat applied subsequently. When applying over a previously applied epoxy primer, ensure that the primer is fully cured (approximately 8 hours).

APPLICATION PERFORMANCE

To ensure proper penetration and adhesion, the substrate must mandatorily comply with the following conditions: it shall be level; exhibit cohesion and compactness, with a minimum tensile strength of 1.5 N/mm² (pull-off test); present a regular surface with a smooth finish; be free from cracks and fissures, which must be previously treated when present; be sound, clean and dry, free from dust, material residues, loose particles, surface cement laitance, as well as free from grease, oils and the presence of microorganisms such as moss.

The recommended substrate temperature for application shall be between 10°C and 40°C (50°F and 104°F). If the temperature exceeds 45°C (113°F), additional measures shall be adopted in accordance with the manufacturer's instructions. The substrate moisture content must be below 4%, and the relative air humidity below 85%.

SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals. Carefully read all information contained in the SDS of this product, available at: www.weg.net.

Store in a covered and well-ventilated place. Keep the container tightly closed and away from sources of heat or ignition.

Use only in well-ventilated areas, avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.

Do not inhale mists/vapors/aerosols generated during handling and/or application. Use protective gloves/protective clothing/eye protection/face protection.

Empty containers and materials with paint residues must be disposed of according to current legislation. Take care of the environment.

NOTE

The information contained in this technical bulletin is based on the experience and knowledge acquired in the field by WEG's technical team.

In the event of using the product without prior consultation with WEG regarding its suitability for the purpose for which the customer intends to use it, the customer acknowledges that the use will be at their own exclusive responsibility, and WEG is not liable for the behavior, safety, suitability, or durability of the product.

Some information mentioned in this bulletin is only an estimate and may vary due to factors beyond the manufacturer's control. Therefore, WEG does not guarantee and assumes no responsibility for performance, efficiency, or any material or personal damages resulting from the incorrect use of the products in question or from the information contained in this Technical Bulletin.

The information contained in this technical bulletin is subject to periodic modifications, without prior notice, due to our policy of continuous improvement and evolution of our products and services, providing quality solutions to meet the needs of our customers.