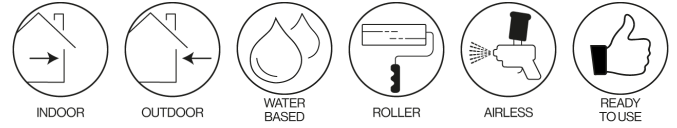


resin protection matt k

METROPOLIS®
MADE IN ITALY

technical sheet - ed. 05/2024



Two pack, polyurethane matt topcoat

DESCRIPTION

Two-pack, water based, non-yellowing, glossy transparent, polyurethane finish, crosslinked with an aliphatic isocyanate. High resistance to abrasion and good resistance to chemicals. For indoor and outdoor use (vertical walls). For professional users only

Adhesion (cross-cut test): class O

Water permeability coefficient (UNI EN ISO 7783:2012) $\Delta w_{24}: 0.01 \text{ Kg/m}^2\text{h}^{1/2}$.

Determination of water vapour permeability (UNI EN ISO 7783:2012) Sd : 0.0637 m.

"Taber" resistance (UNI 10559:1996) with "CS17" abrading wheel after 1000 revolutions: 12.3 mg/1000 rev.

Chemical resistance (internal method):

Coffee *** 20min. * 1h, Wine **** 20min *** 1h, Fruit juice **** 20min. **** 1h, Food-grade oil **** 20 min **** 1 h, Coca Cola **** 20 min **** 1 h, Milk **** 20 min **** 1 h, Floor cleaner **** 20min *** 1h, Hydrogen peroxide **** 20min **** 1h, Hair dye *20min *1h, Bleach **** 20min **** 1h, Hydraulic oil **** 20min **** 1h, Mineral oil **** 20min **** 1h, Soda 30% **** 20min **** 1h, Hydrochloric acid 10% ** 20min ** 1h, Acetone ** 20min ** 1h, Turpentine **** 20min *** 1h, Naphtha solvent **** 20min *** 1h, Nitro Thinner * 20min * 1h

Key: **** excellent resistance ***good resistance, slightly ringed ** strongly ringed * insufficient resistance

MAIN PROPERTIES

- Transparent finish
- High chemical resistance



TECHNICAL DATA

Film aspect EN 13300	Matt (≤ 10 gloss 85°)
Thickness EN 13300	Class A, fine ($< 100 \mu\text{m}$) approx. 70 micron in 2 coats
Adhesion on concrete (EN 1542)	$> 1.5 \text{ MPa}$ Metroresin Body, Metrostone Cem, Concrete =
Classification (UNI 8681 / UNI 8682)	Two-pack, chemical-reactive hardening, polyurethane matt topcoat paint, in solution, with aliphatic isocyanate (B4.A.1.C.0.CB)
Specific weight	(A+B): $1040 \pm 50 \text{ g/l}$ (UNI 8910)
Type of binder	polyurethane with aliphatic isocyanate (UNI 8681:CB)
Solid content	(A+B): $42 \pm 2\%$
Catalysis ratio (weight)	A: B = 100 : 20 by weight
Drying time	Dust dry: 3 hrs Touch dry: 6 hrs Fully dry: 12 hrs
Pot life	About 1 hour
VOC	Cat A/j: limit 140 g/l (2010); this product contains a maximum of $140,00 \text{ g/l}$ of VOCs

CHARACTERISTICS

Coverage	With the application of 2 coats: $5-7 \text{ mq/Kg}$ ($54-75 \text{ sq ft/Kg}$)
Coverage per pack	(A + B 4.8 Kg): 31 mq , approx. Coverage varies according to substrate absorption
Overpaintable	After 24 hours, and not more than 36 hours, with any other film-forming product. After 36 hours, careful sanding is required.
Colour range	Transparent
Dilution	Ready to use

APPLICATION

- Notes:**
Outdoors as a transparent protective agent for concrete for vertical elevations
- Suitable Substrates:**
Protective coat for interior floors and walls made with Metrostone Cem. Precast panels, concrete.
- Ambient Conditions:**
Min +10°C max +35°C max RH 80%
- Preparation of the Substrate:**
The substrate must be dry, clean and free of any loose, friable parts. In case of concrete flooring, the substrate must be carefully cleaned and sanded and, if necessary, treated with an adhesion promoting primer.
- Type of Equipment:**
Short-haired wool roller (Magritte Roller), airless spraying equipment
- Application Procedure:**
Add component B to component A as indicated in the Catalysis Report, mix thoroughly. The two components are supplied in containers already weighed and ready for mixing: avoid doing the catalysis by volume with measuring cups, or worse by eye! In case of incorrect mixing, the product can harden abnormally, compromising the performance characteristics. Faced with such an inconvenience, the coating must be completely removed and the cycle started again. On absorbent supports it is necessary to apply a first coat of RESIN PROTECTION GLOSS K or METROFIX in order to uniform the absorption and obtain a homogeneous finish. Apply a second coat of RESIN PROTECTION MATT K at intervals of approx. 12 hours (max within 36 hours).

STORAGE

- Disposal and safety indications:**
Dispose of in accordance with local regulations.
For information on possible hazards, refer to the safety data sheet.
- Packaging:**
Pack A: 4 - 1 kg
Pack B: 0.8 - 0.2 kg
- Storage:**
6 months when stored in undamaged packages at between 5 and 30°C; cannot endure frost and direct sunlight.