



Water based aliphatic PU elastic topcoat

DESCRIPTION

Water-based, 2-component polyurethane topcoat for protection of elastic waterproofing aromatic polyurethane/polyurea membranes. Pigmented. Protects against UV and provides colour-stable appearance.

APPLICATION

General polyurea and Impermax 2k topcoat protection, where a water-based product is desired. Application in roofs or surfaces not intended for traffic or limited to maintenance. Protection of diverse materials (wood, metal, etc) against weathering where an elastic, water permeable, coating is needed.

ADVANTAGES

- Seamless membrane and elastic
- Weather resistant
- Quick cure
- Solvent free

CERTIFICATIONS

CE marking, ETA (ETAG005) : European Technical Assessment document N° 16/0148



TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Chemical description	Water polyol dispersion	Water-dispersible polyisocyanate
Physical state	Liquid	Liquid
Packaging	Plastic container (colourless and pigmented) 14 kg 3.7 kg	Metal container 1 kg 0.3 kg
Non-volatile content	65%	100%
Flash point	>150°C	>100°C
Colour	Variable	Colourless
Density	1,3 g/cm ³	1,15 g/cm ³
Viscosity	<1000 mPa.s (25°C)	450 mPa.s (25°C)
VOC (g/L and %)	10 g/L, 1%	0
Class VOC	A, i	
Mixing ratio	A=100, B=6.9 by weight A=100, B=7.8 by volume	
Mixture properties	Density: 1,3 g/cm ³ Viscosity <1000 mPa.s Colour: variable according to pigments	
Pot life	<1 h (25°C)	
Storage and shelf-life	Keep below 35°C, away from moisture. Frost sensitive. Expiration date: 12 months after manufacture.	

INFORMATION ON THE FINAL PRODUCT

Final state	Elastomeric solid membrane
Colour	Depends on the pigmentation
Hardness (Shore)	84A/30D (ISO 868)
Solid density	1,35 g/cm ³
Mechanical properties	Maximum elongation: 170% Tensile strength: 6.5 MPa (EN-ISO 527-3) Tear strength: 25 N/m (EN ISO 34-1)

UV resistance	UV resistant due to aliphatic PU composition. Non yellowing.
Gloss	<5% (at 60°, 150 microns)
Rebound resilience	28% (ISO-4662)

SUPPORT REQUIREMENTS

Support must be clean, dry, and free from contaminated or non-adherent areas. Free from oil stains, grease, old coatings, and any material that would affect adhesion.

Support temperature must be between 10°C and 30°C.

On new concrete, wait at least 21 days before application, allowing the support to be completely dry.

HUMIDITY AND TEMPERATURE

Ambient temperature must be between +10°C and +30°C. Relative humidity must be below 80%.

SUPPORT PREPARATION

On Polyurea/Impermax 2k-type membranes: clean, if necessary, the old surface with Rayston solvent before application.

On a recently applied membrane: Apply always on a clean membrane. If needed, clean gently before application with a solvent like MEK, xylene, or Rayston solvent or Slow solvent.

Apply a coat of Impertrans ECO as a topcoat a few hours after application of the hot-applied membrane to ensure good adhesion.

On cold applied membranes (e.g Impermax Cold Polyurea) apply Impertrans ECO before 24 hours.

On old coatings or membranes. Clean gently before application with a solvent like MEK, xylene, or Rayston solvent or Slow solvent. Apply an intermediate coat of Primer PU and apply Impertrans ECO afterwards.

Other materials. Use a suitable primer for each case.

MIXING

Open the component A container. Pour component B in it and stir gently for 2 minutes. Transfer the mixture to a bigger container and check there is no unmixed product left.

APPLICATION

Use a suitable paint roller.

CONSUMPTION

Use 200 to 300 g/m², each coat. Final quantity depends on the opacity and color of the base membrane. To get better results, it is recommended using the same color for the base membrane and Impertrans ECO. Some colours (e.g. white) may require two or three coats for a good hiding power.

DRYING TIME

Curing time depends strongly on the local conditions. Curing speed will increase with temperature and decrease with humidity. Following data refer to 200 g/m² applications.

Temperature (°C)	Relative humidity (%)	Touch dry (h)
20	50	2
7	60	6-8



KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies
43890 - l'Hospitalet de l'Infant - Spain
Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com



Water based aliphatic PU elastic topcoat

RETURN TO SERVICE

Under usual conditions (25°C, 50% rh) the material achieves 90% of its properties after 3 or 4 days. Final hardness is expected in 10 to 15 days. It is recommended to wait until the before allowing light traffic on this material.

TOOL CLEANING

Component A and B can be cleaned with water. Cured product cannot be dissolved unless special stripping products are used.

FAQ

Question	Answer
¿Can it be diluted?	Up to 10% with water

MAINTENANCE

Contact with some solvents can damage the material.

SAFETY

Component B contains isocyanates. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a rule, a suitable ventilation must be ensured, and any skin contact avoided. This product is intended to be used only for the uses and in the way here described. Sprayed application methods are not recommended due to health/safety reasons. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. Do not mix waste A and B before ensuring no hazardous reactions can occur.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Technical Data Sheet supersedes previous versions.