

Technical Data Sheet

ACE PRIMERFLEX PLUS

DESCRIPTION

ACE PRIMERFLEX PLUS is an elastic and 100% solids two-component polyurethane system designed to be used as primer and sealer for porous substrates (concrete, mortar, wood,...) and sandblasted steel, before the application of PUR or polyurea spray coatings. In addition to being an adhesion promoter, it is used as a sealant for small cracks and pores to prevent pin holes and as an effective binder for bituminous asphalt sheets with mineral finish

It also has a low sensitivity to substrate moisture, leaving only minimal bubbling when applied to slightly damp surfaces. Due to its low viscosity, ACE PRIMERFLEX PLUS shows an excellent penetration to the substrates it is applied to and can be recoated from 3h to 24h.

ANALYSIS OF THE COMPONENTS

	Component A	Component B
DESCRIPTION	Isocyanate	Polyol
Appearance	Liquid	Liquid
Colour	Dark Brown	Yellow
Mix ratio	1	1
	NCOv 24.1	Ohv 107 mg KOH/g
Freezing point	Below 0°C (32°F)	N/A
Viscosity	40 – 50 mPas	800 – 100

PROPERTIES OF THE SYSTEM

PROPERTIES	RESULT	TEST
Solids	100 %	
VOC	0 %	
Elongation	30 % ± 10%	ASTM D 412
Tensile Strength	15 mPa (2150 psi)	ASTM D 412
Tear resistance (C type dice)	200 pli	D53515
Adherence	3,5 MPa (>500 psi)	
Performance	0,200 lit/m ²	
Drying time		
Recoating min time	3 h	
Recoating max time	24 h	
25°C 50% HR		

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PERFORMANCE

According to porosity and irregularity of the substrate the yields can vary obviously. Please find indicative data that you will have to verify in each case:

- Very porous substrates (mortar, cement,...) ... 2-3 m² /litre
- Concrete, wood, sandblasted steel,... 4-5 m² / litre
- Ceramic ,elastomeric membrane,... 5-6 m² / litre

In case of very porous substrates, with many cracks and hollows or superficial humidity it is recommended to apply more than one coat respecting drying time between coats until a maximum of 130 microns of total thickness. Avoid to leave zones with too much thickness (in irregularities or pools) since just the superior layer will cure and adhesion is not achieved.

It is not recommended to apply the primer within early and late hours of the day since you may get some foam with dew. It is recommended to apply it so that it is exposed to the sun when it begins to cure.

When applying the primer with risk of rain please note that if the membrane contacts with water before curing bubbles or milky spots may appear . If so , you must sand the area to eliminate the product and recoat.

APPLICATION METHOD

PRIMERFLEX PLUS can be applied by roller or airless. Application by roller is recommended when the substrate have many cracks, holes or irregularities to be sealed and can be applied mixed with silica sand to be used as a mortar to filling up orifices or fissures.

STORAGE AND TRANSPORTATION

Component A/ Isocyanate:

The original drums must be kept perfectly sealed in order to prevent contamination with moisture or any other materials that may have a negative impact on the processing of the product. This product reacts slowly with water creating polyureas and liberating CO₂, which may cause the sealed drums to expand and break.

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It is recommended to store this product between 24 °C - 40 °C (75 °F - 104 °F) and it can be stored 12 months by keeping the product in the original containers properly sealed at 25 °C (77°F).

Component B/ Aminic resin:

This product is hygroscopic and therefore the drums have to be sealed to prevent the absorption of moisture, which could affect its processing negatively. It is recommended to store this product between 10°C - 45 °C (50 °F - 113 °F) and it can be stored 12 months by keeping the product in its properly sealed original containers at 25 °C (77 °F).

HEALTH AND SAFETY INFORMATION

Appropriate literature has been assembled in order to provide information concerning the health and safety precautions that must be observed when handling PU-100 isocyanate and aminic components. Before working with these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be overemphasized.

Information is available in several forms, e.g. material safety data sheet and product labels. Consult your ACE COATINGS representative for further information.

IMPORTANT INFORMATION AND SAFETY PRECAUTIONS

Liquid irritate skin and eyes. Use chemical goggles, protective clothing and rubber gloves when working with chemical components. Vapor and spray mists may be harmful. Use only with exhaust ventilation and a positive pressure air supplied full-face respirator. Don not use if you have chronic breathing problems or if you have had a reaction to isocyanates.

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since ACE COATINGS cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of this products for particular use or purpose. Users should thoroughly test any proposed used of the ACE COATINGS products and independently conclude satisfactory performance in the application. Likewise, if the manner in which the product is used requires governmental approval or clearance, the user must obtain approval.

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