R 1800

AROMATIC POLYURETHANE RESIN FOR PRIMERS

DESCRIPTION

Sealant, primer and consolidantfor concrete.
Excellent product as a pore-cap on concrete, cement, mortar supports, etc. prior to the application of pavements, waterproofing, polyester / fiberglass laminates, etc.

This resin reticle in the presence of environmental humidity giving rise to both flexible and hard coatings, with high resistance to abrasion and chemical agents. It constitutes an excellent primer for concrete pavements to which the pore closes, penetrating the support.

Can also be used as a grain binder (glass spheres) in anti-slip coatings on pavements in warehouses, warehouses and parking

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION	
Description	One-componentmoisture-dryingpolyurethane, solvent-based
Density	0.95 g / cm3 (25ºC)
Physical state	Liquid
Presentation	Metal packaging: 4, 9, 20 kg

Viscosity Brookfield, approximate

Temperature (ºC)	Viscosity ()
10	300
20	170
30	110

Solid content (%)	60%
Flashpoint	36º C (ASTM D 93)
Colors	Light yellow
VOC (g / L i%)	393 g / L, 40% by weight
VOC category according to directive	Product subcategory: h 2 consolidatingprimers, solvent-based Phase II from 01/01/2010: 500 g / l
Potlife	2 hours (1 kg, 25ºC, 60% hr)
Storage	Store in a cool (<35ºC) and dry place, away from humidity and heat sources. Storage time: 12 months from manufacture.

FINAL PRODUCT INFORMATION	
Description	Solid membrane
Colour	Colorless, slightly yellow
Hardness Shore scale	60 D, (ISO 868)
Mechanical properties	Maximum elongation: 5% Maximum traction: 36

Elongation (%)	*Traction ()*
2	25
4	35
5	36

Abrasion resistance	19 mg (Taber, CS-10, 1000 cycles)
Water absorption	<1%
Adhesion to various substrates	Surface; Concrete Adhesion (); 50
UV resistance	R-1800 is an aromatic polyurethane product that experiences yellowing in contact with light, without loss of mechanical properties.
Thermal resistance	Permanently stable up to 80ºC
Chemical resistance	Immersion test. Continuous contact (0 = worst, 5 = best).

Agent	Terms	Outcome
Distilled water	7 d, 80ºC	5
Salt water (saturated)	7d, 80ºC	5
Xylene	7d, 80ºC	3
Ethyl acetate	7d, 80ºC	2
Isopropyl alcohol	7d, 80ºC	2
Sodium hydroxide (40 g / L)	7d, 80ºC	5
Hydrogen peroxide (33%)	7d, 25ºC	3
Sulfuric acid (10%)	7d, 80ºC	4
Bleach	7d, 80ºC	4
Ammonia (3%)	7d, 80ºC	4
gasoil	7d, 80ºC	4
Hydrochloric acid (3%)	7d, 80ºC	3

Surface contact test (0 = worst, 5 = best), 24 hours at room temperature

Agent	Terms
Water	5
Ammonia	5
Isopropyl alcohol	1
Sodium hydroxide (40g / L)	4
Hydrogen peroxide (33%)	5
Sulfuric Acid (10%)	5
Xylene	4
Salfuman (5% HCl)	5
Ethyl acetate	1
Bleach	4
gasoli	4
Motor oil	5
beer	5
Methylethylketone	0
Acetate of butilo	2

SUPPORT REQUIREMENTS

To obtain good penetration and adhesion, the support must always have the following characteristics:
1. Level (since it is a self-leveling product)
2. Cohesive / coct with a minimum resistance of 1.5 N / mm2 (pull off test)
3. Regular and fine appearance
4. Free of fissures and cracks. If there are, they must be previously treated
5. Healthy, clean, dry, free of dust or remnants of loose materials or particles, superficial slurries and free of fats, oils and mosses.

ENVIRONMENTAL CONDITIONS OF HUMIDITY AND TEMPERATURE

The recommended temperature of the support for the application is between 0ºC and 30ºC.
Higher temperatures can lead to the formation of bubbles under the surface or an irregular surface due to too rapid evaporation of the solvent.

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SUPPORT PREPARATION

It is essential that you carry out the necessary surface treatment (sanding, shot blasting, etc.) and remove any loose material beforeapplication.

MIXING OR HOMOGENIZATION

It is not necessary to shake the product except if a dilution has been made.

APPLICATION AND CONSUMPTION

It can be applied with a roller, brush or airless spray. Although it is not essential, it is recommended to fully use the content of each container. If not, you must ensure that it is completely water tight.
It can be applied undiluted, as supplied; however, in a first coat you can dilute the product by adding PU Retardant solvent up to 25% in excess. Dilution with Rayston solvent is not recommended.
Expect a consumption of 100 to 300 g / m2 per coat.
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CURING TIME

Drying time varies considerably with environmental conditions as it is a moisture-curing polyurethane. The higher the temperature and the more humidity there are, the shorter the drying time. Below are some guideline values for a 500 g / m2 film.

Terms	Dry to Touch (h)
35ºC, 90% hr	1
25ºC, 50% hr	4
35ºC, 20% hr	4
7ºC, 50%	8

REPAINTED

Possible after drying to the touch and up to 48 hours later (23ºC). It is very important to ensure complete evaporation of the solvent before applying subsequent layers, avoiding the appearance of bubbles on the surface.

TOOL CLEANING

Clean tools using PU retardantsolvent.

FREQUENT QUESTIONS

issue	Question	Cause	Solution
When diluting, lumps have formed	Has appropriate solvent been used?	Rayston solventisnotsuitable	Redissolveusing PU retardantsolvent

SECURITY

R 1800, contains isocyanates and flammable solvents. Always follow the instructions on the safety sheet of this product and take the protection measures described therein. In general, adequate ventilation and / or respiratory protection is mandatory for the operator (combined particulate filter and organic vapor filter), along with protective clothing for the skin. The product should be used only for its intended uses and in the prescribed manner.
This product should only be used for industrial and professional uses. Not suitable for DIY use or for use by the general public

ENVIRONMENTAL CONDITIONS

Empty containers should be handled with the same precautions as if they were full. Consider packaging as waste to be treated through an authorized waste manager. If the containers contain remains, do not mix them with other products without previously ruling out possible dangerous reactions. Small amounts of debris can be allowed to harden in the same container as a stage prior to treatment

OTHER INFORMATION

The information contained in this data sheet, as well as our advice, both written and provided orally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as guarantee for the applicator, who should take them as merely indicative references and with strictly informative value.
We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient to carry out tests "in situ" to determine the suitability of a treatment in place, with the purpose and conditions concrete that occur in each case.
Our recommendations do not exempt from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many preliminary tests as appropriate if there is doubt as to their suitability for any work, installation or repair, taking into account the specific circumstances in which the product will be used.
The application, use and processing of our products are beyond our control and, therefore, under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for the damages derived from total or partial non-observance of the use and installation manual and, in general, from the inappropriate use or application of these products.

This data sheet cancels previous versions

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