

EURO POLYMERS UREA-1000R/H

UREA-1000R/H is a 100% solid content, no-VOC, 2 component Polyurea. Hot spray applied, very fast curing and drying to form a Polyurea waterproofing membrane with wear and impact resistance, high tensile strength properties. The membrane is working well in low temperature, chemical resistance and good adhesion to substrate .

APPLICATION RANGE	<ul style="list-style-type: none"> Waterproofing to concrete, wooden, iron and steel structures for Airport, apartment, water retaining structure, ... Use for chemical contacting areas Use for oil resistant areas Use as the versatile protection membrane
FFEATURES & BENEFITS	<ul style="list-style-type: none"> No-VOC content Very fast curing time (30 sec.) High tensile strength and highly elastic Withstand in low temperature Resistance to thermal shock Excellent chemical resistance: solvents, oils and acid, ... Excellent adhesion strength to proper prepared surfaces <p>Note: for sunlight direct contact areas, 2 coats of Euro Polymers UP-266 Top Coat at 0.25 - 0.3 kg/m² are recommended to protect UREA-1000R/H against discolored</p>
SURFACE PREPARATION	The substrate should be dry, clean and free from laitance, oil, dust, paint residues, algae, loose and friable material must be completely removed from all surfaces before application of the product
PRIMING	Use Euro Polymers UP-100 Primer, leave it dry for 1-4 hours prior application of UREA-1000R/H
CONSUMPTION	<p>1.1 kg/m²/mm (UREA-1000R: 0.55kg, UREA-1000H: 0.55kg)</p> <p>The consumption may vary subjected to the substrate condition.</p>
PACKAGING & STORAGE	<p>415 kg/set (UREA-1000R: 215kg, UREA-1000H: 200kg)</p> <p>Product shelf life is 6 months (at 30°C). Keep un-opened drum in dry, well ventilated storage, avoid any contact with moisture, water and alcohol</p>

Product datasheet

Date: 26/07/2021

Version 02

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TECHNICAL DATA

Dry time (25°C)	10-30 sec.
Shore D hardness	45 - 50
Tensile strength (N/mm²)	> 16
Elongation at break (%)	> 300
Tear strength (N/mm)	> 50
Service temperature (°C)	0 - 100
Chemical resistance (Soak in 168 hours at room temperature)	
10% - Sulfuric acid	No change
30% - Sodium chloride	No change
30% - Sodium Hydroxide	No change
50% - Sodium Hydroxide	No change
Diesel	No change
Salt water	No change

** The above technical data may vary according to quality improvement or working conditions as they are taken from results of laboratory tests and application contexts.*

MATERIAL PROPERTY

Criteria	UREA-1000R	UREA-1000H
Type	Isocyanate Prepolymer	Amine Mixture
Form	Amber liquid	Colored liquid
Viscosity (cps at 25oC)	400 ~ 600	400 ~ 600
Mixing ratio (by weight)	1	1
Solid content (%)	100	100

APPLICATION NOTICE

* General application instructions

- The substrate should be dry, clean and free from laitance, oil, dust, paint residues, algae, loose and friable material must be completely removed from all surfaces before application of the product. UREA-1000R/H can be sprayed in a wide range with normal temperature and substrate surfaces. The limitations are in the ability of the application equipment to provide adequate material, pressure, and heat. Contact technical service personnel for specific recommendations, pricing and availability of spray and auxiliary equipment. It is recommended that UREA-1000R/H be sprayed in multidirectional (north-south/east-west) to ensure uniform thickness. The component “B” – amine must be thoroughly mixed prior application.

* Recommended Equipment Settings

- Standard ratio 1:1, UREA-1000R must be preheat to 79°C (175°F) with a minimum pressure 1,500 psi (10.34 MPa)
- These machines can be used: GRACO-GUSMER H-3500, H-20_35 Pro, E-XP2.
- Hose can be used: Graco- GUSMER GX-7, GX-8, Fusion MP Gun
- Pre-heater temperature should be at 70-75°C (158-167°F) •
- Hose temperature should be at 60-70°C (140-158°F) a hose thermometer inserted under the insulation near the gun should read a minimum of 55-70°C (131-158°F)
- Physical properties will be increased when sprayed at higher pressure $\geq 2,500$ psi (17.24 MPa)

PRECAUTIONS

Should apply in a well-ventilated area, keep away from any smoke, fire source; Use a fan if necessary. Wear a safety equipment such as respirator, glove goggles. In case of contact with eyes, rinse eyes with plenty of water and seek for a physician care as soon as possible. Please note: Solvents are volatile substances. Please read all information in product data sheet before applying. These information may be updated without prior notice. Please contact us or visit our website for updated technical data and instructions.

DISCLAIMER

All guidance, recommendations, reports and technical data contained in this document are based on information and testing we believe to be reliable and accurate, but the accuracy and completeness of the articles of above inspection is not construed as warranty. It is the user's responsibility to clarify themselves with the information and to check to determine the suitability of the product for its own use, application and work situation. We do not recommend or guarantee that any of the hazards listed here are the only ones that may exist. Neither the seller nor the manufacturer shall be liable to the buyer or a third party for any loss or damage directly or indirectly resulting from the use or inability to use the product. Recommendations or representations, whether written or oral, except as outlined in this document are not binding on the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the appropriate materials and application procedures. Test results have been obtained based on a lab condition and Euro Paint Vietnam Co., Ltd. does not believe that these tests or any other test, are accurate for all environmental conditions.



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