

EURO POLYMERS UREA-900(COLD POLYUREA)

UREA-900 is a premium featuring super durable liquid, cold applied, 2 component, fast curing, very good adhesion and excellent tear resistance for surface requires waterproofing with high durability, UV resistant such as exposed roofs landscapes, planter boxes..., abrasion and chemical resistant for outdoor structures

APPLICATION RANGE	<ul style="list-style-type: none"> • Use as a high-grade waterproofing for landscapes, planter boxes, podiums, balconies ... • Exposed waterproofing for roofs, terraces, balconies, ... • Areas requiring high abrasion protection, contact with wheels such as helicopter pads, parking lots, industrial sidewalks, ... • Waterproofing for water tanks, swimming pools, artificial seas, trenches, drainage systems ... in amusement parks or industrial factories • As a protective coating for sewers, wastewater tanks of industrial wastewater treatment plants • As a protective coating to the PU Foam insulation • If using for outdoor, apply additional UV protection coating UP-266 Top Coat at the rate of 0.25-0.3 kg /m² /2 coats.
FEATURES & BENEFITS	<ul style="list-style-type: none"> • Simple application by manual methods such as paint brush, roller or cold spray, without heating • Form a seamless and continuously membrane • Fast curing, shorten application time, improve economic efficiency and minimize risks caused by weather, compared to other waterproof systems. • Excellent chemical resistance to seawater, wastewater containing salts, oils, fats, alkalis, diluted acids ... • No solvent, environment friendly • Good adhesion to most type of substrates such as: Concrete, screed, metal ...
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 (dried substrate) or EP-2WT (damped substrate), leave it dry for 1-4 hours (not exceed 8 hours) prior application of UREA-900
MIXING	Stir well part A using paint mixer, slowly add part B and continuously mixing in 3-5 mins until a homogenous mixture achieved

Product datasheet

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Version 05

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CONSUMPTION	0.6 - 0.75 kg/m ² /coat
	At least coat is required with total 1.2-1.5 kg/m ² . For root, abrasion or chemical resistant purpose, apply with a minimum of 2.0 kg/m²
APPLICATION	UREA-900 can be applied by brush, roller, steel and notch trowel or air pressure spray. Leave the 1st applied coat 2-4 hours (not exceed 6 hours), then apply 2nd coat. * Fine particles on the surface may occur when applying the UREA-900 product at high temperature and low humidity in the air. However, it does not affect the quality of the product * For protective mortar requirements: apply clean and dry quartz sand to roughen while the final layer of UREA-900 is still wet.
PACKAGING STORAGE	26.5 kg/set (Part A: 25kg, Part B: 1.5kg) Product shelf life is 09 months (at 05-30°C). Keep un-opened pails in dry, well ventilated storage. Avoid any contact with moisture, water and alcohol. Use the product as soon as the lid has opened

TECHNICAL DATA	
Product type	2 components Polyurea
Color	Red
Density	1.29 g/cm ³
Solid Content	> 93%
Shore A hardness (ASTM D2240-15)	> 70
Tensile strength (ASTM D412-16)	> 9.50 MPa
Elongation at break (ASTM D412-16)	> 600%
Tear strength (ASTM D 624-00(2012) Type C/T	> 40 kN/m
Puncture resistant (ASTM E154-08a – 2013)	> 300 kN
Water penetration (BS EN 12390-8:2009)	0 (5 bar, 72 hours)
Adhesion strength after 7 days (ASTM D7234-12)	> 2.5 MPa
Glossy	Semi-gloss
Crack bridging (ASTM C836-95)	≥ 2mm (1.5mm±0.13)
Theoretical consumption	~ 1.2 kg/m ² /mm (dry film)
Application temperature	+5 to +35°C
Dilution (Thinner 18 or Xylene)	3-5% (by weight) - Spray applied only
Service temperature	100 days at 80°C & 200°C Dry (sudden)
Pot life	~ 15-20 mins (at 30±5°C)
Application method	brush, roller, steel and notch trowel or air pressure spray
Dry time (depend on temperature and relative humidity)	23°C, 55% RH Touch free: 2-4 hours Time between coats: ~4 (not exceed 6) hours Fully cured: 7 days

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. Note that 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.



EURO PAINT VIET NAM CO., LTD

No. 64/27, Binh Phuoc B Quarter, Binh Chuan Ward,
Thuan An City, Binh Duong Province
Email: info@europaintvietnam.vn
Tel: (+84) 965.946943

