



Product Data Sheet

Description

HPR Ureamax is a 100% pure polyurea, 2- component system for elastic membrane application with crack-bridging capability. It is an extra fast-curing system that can only be applied by hot mechanical spraying equipment. HPR Ureamax can be combined with different geotextiles to obtain on site applied, seamless liners.

Waterproofing of concrete structures. Roof waterproofing. Sewage and wastewater treatment structures. On- site applied liners, totally seamless, for secondary containment applications, ponds, landfills, tunnels, canals, dam repairing.

HPR Ureamax can be completed with an aliphatic polyurethane topcoat to ensure UV protection.

CE marking EN 1504-2: 0370-CPR-2247, • ETA (ETAG005): European Technical Assessment document N° 16/0148

Water Regulations Advisory Scheme LTD. (WRAS) Material Approval (United Kingdom, contact with water intended for human consumption). Approval number applied for ** (Consult Highlands Performance Resins Technical)

Properties

Solids	100%
Adhesion (with Primer)	Concrete 4 Mpa
	Steel 5.3 Mpa
Abrasion	10 mg (Taber, 1000 c. CS-10, 1kg)
Tear	69 N/mm (ISO 34-1, method B)
Fire Resistance	B roof t1 EN 13501-5:2005+A1 :2010
Hardness	87A.35D
Water Permeability	0,9 g/m2 * d Class II EN1504-2
Gloss	80-85(60°)
Cure	Gel time mixture A+B (20 g) 4 s at 25°C
	5 min / 28 Shore A
	24 hr / 80 Shore A
Return to Service	10 min
Elongation	Max 324% Tensile strength: 16,2 MPa

Always consult the HPR-025 Liquid Waterproofing for more information.

Colour

Ral 5015 or Ral 7011 (Special colours on request)

Pack Size

185kg Part A : 200kg Part B : 4kg Pigment

Application

Concrete substrates must be prepared mechanically using high pressure sand or abrasion, to remove the surface and obtain an open pore. Substrates must be primed and levelled until a regular surface is obtained. Sharp irregularities are eliminated using an abrading disc machine. Eliminate all dust and loose particles from the substrate by brushing or vacuum cleaning. If underlying moisture is suspected, it is recommended to apply 2 coats of epoxy primer on concrete. First one as such and the second one with quartz sand spread over.

Mixing

Ratio is 1:1 by volume and 1:1.17 by weight

Both the component A side and the component B side should be preconditioned between 25 °C - 30°C before loading. Stir and homogenise separately both components using suitable mixing equipment before being loaded into the machine. Add the required Pigment Spray to the A-component and stir before loading. Recirculate both components while heating up to the required application temperatures.

Component A: 68°C Component B: 70°C Hose: 67°C

Pressure must be adjusted to 140 bar.

During spraying, check coating thickness to ensure curing is correct. HPR-025-PR is applied at 1,5-2,0 kg/m2, obtaining a 1,5-2 mm thickness.

Component B of HPR Ureamax contains isocyanates and Component A contains corrosive polyamines that can cause burns. Always follow the safety instructions in the Material Safety Data Sheet.

Other Information

The information contained in this 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" in order 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.

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