



HYDRO LASTIK

Two Pack Extremely Flexible Waterproofing

Dubond's Hydro Lastik extremely flexible two-part water-proofing for brush, trowel, roller or spray application. Suitable for hydraulic works in general, foundation walls against the ground, swimming pools, terraces and balconies. Component A is a waterbased special acrylic resin and component B, is a mortar based on a mixture of specialminerals, additives and well-graded aggregates. Once applied and cured, Hydro Lastik provides a non-toxic, flexible and waterproofcoating with very high adhesion on those common substrates in construction such as concrete, natural and artificial stone, traditional mortar plasters, bricks, concrete blocks, etc.

Green Building Rating



Mineral \geq 30%



Low Emission



Low Ecological Impact



Health Care



Water Based

Areas of Application

- Waterproofing and protection of water retaining structures, such as drinking water tanks, reservoirs, water mains and swimming pools.
- Waterproofing of below-grade structures like basements, retaining walls, foundations, tunnels, galleries subjected to both positive or negative high water pressure.
- Internal and external waterproofing and protection of new and old buildings, facades against dampness, rain, pollution and aggressive environments.
- Waterproofing and protection of concrete against carbonation, freeze-thaw cycles,
- De-icing salts in highways and chlorine penetration in public works, irrigation channels, dams, retaining walls and water treatment plants, bridges, etc.
- Tile fixing and waterproofing under tile and pavement in terraces, balconies, bathrooms, kitchens and other wet rooms in hotels, hospitals, offices and residential buildings, in indoor or outdoor use.
- Waterproofing of window boxes, gardens and other surfaces subject to root penetration.

Features & Benefits

- Provides a fully-flexible coating which ensures complete waterproofing even in the most severe conditions, as high negative water pressure.
- Covers shrinkage and hairline cracks of the concrete.
- Acts as an anti-fracture membrane between the substrate and other finishing coats if applied.
- Excellent protection for concrete, being both a CO₂ and chlorine (Cl₂) barrier and thereby preventing carbonation and electrochemical corrosion.
- Permeable to water vapour, allows the substrate to breathe.



- Resistant to abrasion and UV rays.
- Withstands atmospheric pollution, corrosive effects of salt water and de-icing salts and freeze/thaw cycles.
- Resists hydrostatic negative pressure from ground water when used for underground interior applications.
- Excellent adhesion and easy to use. Does not require bonding agents and can be applied on wet surfaces.
- Non-toxic and chloride-free. Suitable for contact with potable water.
- Longer lasting than other coatings, avoiding maintenance costs.
- Environmentally friendly.
- Withstands the root penetration, when properly reinforced with fiber glass mesh.

■ Method of Application

Surface Preparation

1. The surface to be coated must be sound, clean, and free of all traces of paint, dust, grease, efflorescence, loose particles, gypsum, plaster and mould release compounds. Recommended cleaning methods are high pressure water cleaning and sandblasting. Other percussive methods are not recommended.
2. Any damage or concrete defect should be repaired in advance. Patch all holes, voids and honeycombs. Cracks opened to approximately 2 cm in depth. Exposed steel bars must be cleaned and patched with up to 1 cm. minimum thickness. If it is needed, treat steel bars with Dubond ZRP
3. Hydro lastik is supplied as two preweighed components A & B.
4. Pour the resin, component A, into a clean container and add the powder gradually, component B, while mixing with a low speed mixing drill (400 – 600 rpm). Mix until a homogeneous mixture free of lumps is achieved.
5. Do not add water and keep liquid/powder ratio as per the packaging supplied. Depending on existing temperature and R.H. climate conditions, pot life expected will be between 30 minutes and one hour.

■ Application

- Hydro lastik is applied with a fibre type brush or by trowel when a smooth finish is required. For large areas Hydro Lastik can also be sprayed, being the recommended nozzle size 3-4 mm and spraying pressure between 3.5 and 5.0 bar. When sprayed, it is recommended to finish the fresh coat with a trowel to make sure that the whole surface is covered completely.
- Apply two coats, using 1 – 1.5 kg/m² Hydro lastik per coat and allow a minimum of 16 hours and a maximum of 3 days between applications. Prior to application thoroughly wash down and saturate the surface, but do not leave free standing water. Thickness per layer should be 1 mm approximately, thereby being important to avoid very thin application or, on the opposite, a much thicker one. In those areas such as fissures, concrete joints and active cracks, once repaired and sealed.
- Place the mesh on a first coat of Hydro lastik with at least 20 cm wide of strip, and then apply a second coat of Hydro Lastik.
- Application conditions Optimum application temperature is between 10°C to 25°C. Do not apply below 5°C or if lower temperatures are expected within the following 24 hours after application. Do not apply on frozen surfaces or if rain is expected 24 hours after application. Protect against quick drying by winds and direct sunlight with high temperatures, by fog spraying with water for two hours after application.
- Curing time required to put the product into service or to immerse it in water will depend on temperature and relative humidity conditions on site. Conditions in the range of 20°C and 50% R.H will require a minimum of 14 days to ensure that the product has cured enough to be in permanent contact with water. Applications made at lower temperatures or sites without ventilation will require longer curing periods. After curing, wash the surface of Hydro Lastik with water before putting into service in permanent contact with water.

Technical Information

Appearance of component A	White Powder	
Appearance of component B	Milky White Liquid	
Density of powder component A	1.03 ± 0.05 g /cm ³	
Density of liquid component B	1.35 ± 0.05 g /cm ³	
Density (A) + (B)	1.56 ± 0.05 g /cm ³	
Waterproofing against positive water pressure	> 9 kg /cm ² (Maximum pressure of equipment)	
	4 kg /cm ²	
Waterproofing against negative water pressure	< 0.03 kg /m ²	
Scaling		
Adhesion to different substrates	N/mm²	Breakage
Concrete (ASTM D-4541)	2.0	Mortar
Previous Hydro Lastik (ASTM D-4541)	1.8	Mortar
Steel panel. HKHA MTS 97/99	1.73	Mortar
Suitability for contact with drinking water	Listed in the Water Regulations Advisory Scheme (WRAS) for use in contact with potable water, tested under British Standard 6920. Meets requirements under R.D. 140/2003	
Elongation at break (UNE 53510-01)	59 ± 5 %	

Coverage

Hydro lastik is applied in two coats of 1 – 1.5 kg/m² approximately per coat, achieving a total consumption of 2 – 3 kg/m². These figures may vary depending on porosity and substrate conditions, a preliminary test onsite will determine consumption exactly.

Packing

Hydro Lastik is supplied in white colour, Pre-weighed sets of 15 kg (10 kg component A + 5 Liters component B)

Shelf life & Storage

12 months in unopened pack at dry place, protect against freezing.

Health & Safety Precautions

Both components are non-toxic by themselves, but powder component is an abrasive compound. Avoid eye and skincontact for both components. Protective rubber gloves and safety goggles must be used to mix and apply them. In case of eye contact, rinse thoroughly with clean water but do not rub. In case of skin contact, wash affected areas with water and soap. If irritation still persists, seek urgent medical assistance.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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