SPECIALIST IN CONCRETE ACCESSORIES

TECHNICAL DATA SHEET - HYDRA RUBBER LM

DESCRIPTION

HyDra Rubber LM is a cold-applied, single-component, solvent-free coating based on modified elastomer-bitumen emulsion. The product is designed for waterproofing, air and gas barriers, and corrosion protection. Its high viscosity allows application even on vertical surfaces and bridging of small cracks. The product is approved for use under water pressure up to 8 bar*.

*=Tested by Vattenfall AB according to SS-EN 1290-8:2009.

APPLICATION AREAS

- Concrete structures
- Parking decks
- Moisture barrier
- Radon sealing
- Air & gas barrier

PROPERITES

- Water-based & solvent-free
- UV & chemical resistant
- Flexible and seamless
- Excellent adhesion to concrete
- Withstands high water pressure (up to 8 bar)
- Tested as a radon varrier according to SP method 3873
- CE-marked according to EN-15148
- Suitable for indoor & outdoor use
- Easy application

TECHNICAL DATA - UNCURED

PROPERTY	VALUE
Colour	Brown/black
Odour	None
Specific weight	approx. 1,0 g/cm³
Solids content	53-58 %
Viscosity	17 000-25 000 Pa-s
pH	10-12
VOC	0 g/l (solvent-free)

TECHNICAL DATA - CURED

PROPERTY	VALUE
Colour	Black
Water absorption	0,00011 kg/m²s$^{0.5}$ (EN ISO 15148)
Water vapour permeability	0,59 g/m²·24 h (EN ISO 7783)
Crack bridging	Passed (ASTM C1305)
Adhesion to concrete	3 590 N/m (ASTM C836-10)
Heat-aged adhesion	5 600 N/m (ASTM C836-10)
Yield strenght	>90 % of original (ASTM D638)
Elongation	850 % (ASTM D638)
Recovery	>90 %
Salt resistance	>1200 h (ASTM B117-09)
Air permeability	0,0004 l/sm² vid 75 Pa (ASTM E2178)
UV resistance	Passed after 250 h (ASTM G155)
Radon transmission	3,4 × 10^{-9} m/s (SP-method 3873)

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COVERAGE TABLE

COATING THICKNESS	CONSUMPTION (KG/M²)
1 mm	1,35
2 mm	2,7
3 mm	4,05

LIMITATIONS

- Do not apply in rain or if rain is expected within 24 hours
- Not suitable for temperatures < +5°C (use HyDra Winter additive)
- Protect uncured surface from frost and contamination
- Unused product must not be exposed to direct sunlight

Protective equipment: Use gloves, safety goggles and suitable clothing.
See safety data sheet for more information

APPLICATION

HyDra Rubber LM is applied using brush, roller or a dedicated spray system. The product cures through evaporation and should be applied in thin layers.

Recommended conditions:

- Application temperature: +15–+20°C
- Relative humidity: max 50%
- Substrate temperature: ≥ +5°C
- Drying time (1 mm): Tack-free after a few minutes
- Fully cured: approx. 24–48 hours depending on thickness and conditions

Coverage:
0.3–0.7 m²/litre (corresponds to 1–3 mm layer thickness)

Surface preparation:
The surface must be dry and free from dust, oil, and dirt. For cracks >3 mm, reinforcement with geotextile between layers is recommended.

NOTE: During the curing process, a film of dirt or grease may form on HyDra Rubber LM. Remove this contaminated layer before applying the next layer.
Topshield should only be used on the final layer of HyDra Rubber LM.

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PRODUCT RANGE

Item.nr	Description	Qty/pkg	Qty/pallet	Unit
1312000	HyDra Rubber LM 20 KG	1	16	Piece
1312001	HyDra Rubber LM 5 KG	1	60	Piece

ACCESSORIES

- **HyDra Topshield 1 L** - Accelerator that speeds up curing (**Use only on final-layer)**
- **HyDra Winter 200 ML -** Additive for cold weather application
- **HyDra Joint Filler 310 ML** - Joint sealant
- **Geotextil** - For bridging and covering cracks/joints

ENVIRONMENTAL & SUSTAINABLITY

BVB ID
113682

This product is listed in the Nordic Swan Ecolabel's Building Product Portal and is thus approved for use in Swan-labelled buildings

PACKAGING & STORAGE

- **Packaging:** 5 kg, 20 kg (bucket)
- **Shelf life:** 24 months in unopened bucket, 12 months once opened (if stored cool and frost-free)
- **Storage conditions:** Store between +5 °C and +32 °C. Protect from direct sunlight.