

TECHNICAL DATASHEET - HYDRA® RUBBER LM

PROPERTIES

HyDra® Rubber LM is a modified elastomeric asphalt emulsion specifically formulated to be applied by brush, squeegee or specially designed spray equipment. HyDra® Rubber LM is a cold applied single component product designed for a wide range of protective coating applications. The product technology employed in HyDra® Rubber LM provides a solvent-free, quick setting coating that yields a membrane with excellent strength, elasticity and adhesion.

HyDra® Rubber LM is an environmentally friendly waterproofing product which can be applied indoors and outdoors with no special protective equipment. HyDra® Rubber LM is used as a protective coating to prevent water- and corrosion damage and as air barrier. HyDra® Rubber LM can be used for rust protection of ferrous materials and is also of value for noise and vibration dampening. It may also be applied to concrete structures, slabs and parking decks. The high viscosity of HyDra® Rubber LM allows it to be used to cover small cracks, or to coat vertical surfaces.



Solvent-free
and environmentally
friendly



Moisture
barriers



Radonproof



EN 15148

* Test Vattenfall AB
according to SS-EN 12390-82009



ADVANTAGES

- Waterproof
- Radonproof
- Environment friendly
- UV resistant
- Seamless flexible membrane
- > 90 % recovery

APPLICATION

HyDra® Rubber LM is a water based environmentally safe product, which is cold-applied and nonsolvent. When cured it will form a seamless flexible membrane. HyDra® Rubber LM is a single component product that may be applied using a brush, roller or squeegee. It may also be spray applied using a specially designed spray system.

Apply in thin coats. HyDra® Rubber LM should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rains are imminent, or in high humidity environments. For best results apply in thin coats. With joints or cracks in the surface a fabric reinforcing layer may be recommended. Consult with your Hydratec representative for further details.

HyDra® Rubber LM is applied between 1,35kg-2,7kg/m² to produce a 1-2mm protective membrane. Typically, HyDra® Rubber LM dries to the touch in one hour and is completely cured in 24 hrs/mm. This curing time may vary depending on temperature, relative humidity and the use of WinterGrade.

Important: During curing process there is formed a greasy layer on the HyDra® Rubber LM. Degrease the membrane before the next layer will be applied.

LIMITATIONS

HyDra® Rubber LM is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. At temperature below +5°, see accessory Wintergrade. Risk of rain, see accessory Topshield. For further information please consult the product MSDS

CAUTION

HyDra® Rubber LM should not be applied when the outside temperature or surface temperature is lower than 5°C. The uncured membrane may be damaged if frozen. Do not apply to wet surfaces or directly before a rain. Some surface base coat materials such as coal tar are unsuitable for use with HyDra® Rubber LM. For industrial use only. Keep out of the reach of children. Do not apply if rain is imminent within 24 hrs. Do not store in direct sunlight max 32°C (90°F) or below 5°C (41°F).

TECHNICAL DATASHEET - HYDRA® RUBBER LM

PHYSICAL PROPERTIES (liquid)

Property	Typical results
Color	Brown to black
Specific gravity (liquid), g/cm ³	Approx. 1.0
Odour	None
Volatile Organic Compound VOC	Contains no solvents
Solids %	53-58%
Viscosity Brookfield CPS	17.000-25.000
pH	10-12

USAGE

Cured membrane (mm)	kg/m ²	seal
1.00	1.35	airtight
2.00	2.7	waterproof

PREFORMANCE (cured membrane)

Property	Typical results
Color	Black
Specific gravity g/cm ³	Approx. 1.0
Water absorption NEN-EN-ISO 15148:2002	0.00011kg/m ² .sec0.5
Water vapor transmission NEN-EN-ISO 7783:2011	0.59 g/m ² *24h
Crack bridging ASTM C1305	Passed
Adhesion to limestone	2,1 n/mm ²
Adhesion to PVC	1,4 n/mm ²
Adhesion to zinc	1,9 n/mm ²
Adhesion to aluminum	2,7 n/mm ²
Adhesion to concrete	3,7 n/mm ²
Adhesion to wood	2,9 n/mm ²
Tensile strength ASTM D638	Passed (>90% original value)
Elongation % ASTM D638	850%
Recovery %	> 90%
Salt resistance ASTM B117-09	Passed >1200h
Air permeability ASTM E2178	0.0004 L/(s.m ²) at 75
UV resistance ASTM G-155	Passed exposure >250h

Accessories:



Topshield



WinterGrade



Geotextile

We reserve the right for printing errors and refer to the fact that the current version of the data is always available at www.hydratec.se or can be requested by contacting our office. Current revision number is in the top left corner.