

# TECHNICAL DATA SHEET - HYDRA® 1K SVINDFRI

Hydra® 1K Svindfri is a 1-component flexible and solvent free bitumen membrane for waterproofing structures acc. to DS/EN 15814:2011+A2:2014.

The membrane contains polystyrene and is crack bridging.

Protects underground constructions against ground damp and permanent hydrostatic pressure depending on construction of the membrane, see under "Consumption".

It can be applied to vertical and horizontal surfaces, foundation slabs, foundations and cellar walls. Can be used on all known and suitable mineral substrates such as concrete, light weight concrete, brickwork etc.



Working temperature between -5°C & +30°C	Radon protection	Applicable with trowel/scraper	Ready to use	Contains polystyrene	DS/EN 15814

## SPECIFICATIONS

Features	Test method	Result
Permanent hydrostatic pressure	EN 15820	7,5 mvs
Radon diffusion coefficient	DIN ISO 11665-10	9,43 E <sup>-13</sup> m <sup>5</sup> s <sup>-1</sup>
Density		0.65 kg/l
Material shrinkage	EN 15819	14 %
Complete hardening / full loading capacity*		4 days
Rain resistance	EN 15816	3-4 hours
Working and drying temperature		+5°C to +30°C
Crack bridging and flexible	EN 15812	No damage with cracks ≤ 2 mm Dry layer thickness ≥ 3 mm
Water resistance	EN 15817	No coloration of water No debonding from inlay
Flexibility at low temperatures	EN 15813	No cracks
Dimensional stability at high temperatures	EN 15818	No sliding or draining down
Reaction to fire	EN 13501-1	Class E
Compressive strength	EN 15815	0,30 MPa, with reinforcement ≥ 4 mm (dry)

Resistant to frost and de-icing salts

**Unlimited durability when installed correctly according to specifications.**

\* Time indications can vary depending on humidity, temperature, thickness and surface. Time indications are based on +23 °C og 50 % relative humidity.

## PACKAGING AND STORAGE

30-liter bucket | 18 buckets/pallet | weight per pallet 400 kg

Minimum 12 months shelf life when stored cold, dry and frost free in original packaging.

## COMSUMPTION

	Min. dry layer thickness	Min. wet layer thickness	Consumption	Reinforcement mesh	Number of layes
Ground damp and no hydrostatic pressure	3 mm	3,5 mm	3,5 l/m <sup>2</sup>	No	2
Permanent hydrostatic pressure (< 7,5 mvs)	4 mm	4,7 mm	4,7 l/m <sup>2</sup>	Yes	2
Skratch coating	1-2 mm	-	1-2 l/m <sup>2</sup>	No	1
Installation of insulation- and drainage sheets	1-2 mm	-	1-2 l/m <sup>2</sup>	No	1

## PREPARATION OF FOUNDATION



- The foundation must be dry, level, stable, frost free, clean and without traces of oil, grease, tare, rocks, dust and dirt, excess mortar, or other potentially contaminating substances.
- The edges must be chamfered, and internal corners must be rounded with suitable material such as Rep 45 Reparationsmørtel
- The risk of blister/bubble formation as a result of pores or hollow areas in the concrete can be reduced by scratch coating using HyDra® 1K Svindfri.
- Mineral surfaces must be primed with Hydra® Bitumen Primer (app. 0,1-0,2 l/m<sup>2</sup>).

## APPLICATION

- Hydra® 1K Svindfri is ready to use and should be applied evenly in at least two layers after HyDra® Bitumen Primer has dried on the surface - **NB! Hydra® 1K Svindfri must be applied within 24 hours after the primer has been applied (the primer should be dry but sticky. This depends on temperature and humidity).**
- Application to the required layer thickness is carried out using either suitable airless spraying equipment, a smoothing trowel or a normal trowel.
- The second layer can be applied as soon as the first layer is dry on the surface, so the membrane cannot be damaged.
- The necessary minimum dry layer thickness must be maintained across the entire work area.
- The required wet layer thickness must not be exceeded with more than 100%.
- If using the HyDra® Armeringsvæv, it must be fully integrated between the two layers of bitumen.
- During work breaks the polymer-modified bitumen coating has to be 'scraped down to nothing' and must not end on/in a corner of the building.
- Control of layer thickness, drying and adhesion of the applied membrane must be done in a destructive manner.
- The result of the layer thickness and completed drying test must be documented in a control sheet.
- Tools and equipment must be cleaned with water immediately after use.

## CE-MARKING

The product is subject to Construction Products Regulation No. 305-2011 and is CE marked according to DS/EN 15814:2011+A2:2014. Declaration of performance (DoP) can be found at [www.haucon.dk](http://www.haucon.dk)

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<b>HyDra® 1K Svindfri (W2A, CB2, C2A)</b> <b>EN 15814:2011+A2:2014</b> Polymer modified bitumin thick coatings for waterproofing	
Watertightness	Class W2A
Crack bridging ability	Class CB2
Water resistance	No coloration of the water, no debonding from inlay
Flexibility at low temperature	No Cracks
Dimensional stability at high temperature	No sliding or draining down
Reaction to fire	Class E
Resistance to compression	Class C2A
Dangerous substances	NPD
Durability of water tightness and reaction to fire	Passed

## SAFETY DATA SHEET

Safety data sheet (SDS) can be found at [www.haucon.dk](http://www.haucon.dk)

Note: We reserve the right to make printing errors. The current version of data is always available at [www.haucon.dk](http://www.haucon.dk) or can be requested by contacting our internal sales department. The current revision number is in the top left corner