

HYPERDESMO®-2K-HC

Two-component, elastic, sprayable, hot-cure polyurethane for waterproofing & protection.

DESCRIPTION

HYPERDESMO®-2K-HC is a two-component fast cure polyurethane system, 100% solids, for application by plural component spraying equipment.

It is highly elastic and has a polymerization profile specially formulated for enhanced adhesion. It is highly recommended for commercial and industrial applications that require high levels of abrasion resistance and impact strength.

Minimum total consumption: 1.5-2.0 kg/m².

RECOMMENDED FOR

Sealing of cementitious surfaces.

Waterproofing and protection of:

- PU and polystyrene insulation foam,
- roofs,
- tanks,
- drinking water tanks (for this application please consult our technical department),
- pipes.

LIMITATIONS

Not recommended for:

- unsound substrates.



Direct UV exposure requires the use of a topcoat to retain the colour.

Recommended Topcoats:

HYPERDESMO® ADY 810

HYPERDESMO® ADY-2K

HYPERDESMO® ADY-E

AQUASMART® TC 2K FLOOR PROTECT

The selection of the final topcoat should be done based on the final use of the surface. Please see individual TDS of the above list or contact our technical department.

FEATURES & BENEFITS

- Quick curing - gel time 30 sec (unaffected by humidity and weather).
- Bubble and defect free membrane.
- No plasticizers.
- No heavy metal toxic catalysts.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80 °C, max shock temperature 250 °C.
- Resistance in the cold: The film remains elastic even down to -40 °C.
- Excellent mechanical properties: High tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- Moisture vapor transmission: The film breathes so there is no accumulation of humidity under the coat.
- Special primers are available for almost every substrate.

APPLICATION PREREQUISITES

Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15\text{Mpa}$.
- Humidity: $W < 10\%$.
- Temperature: 5-35 °C.
- Relative humidity: $< 85\%$.

Primer selection for special conditions and substrates:

Please refer to the **Primer Selection Table**.

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APPLICATION PROCEDURE

Clean the surface using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with appropriate products.

Priming:

Apply the required primer following the guidelines above.

Application:

Drums of components should be pre-heated to 25° C prior to mixing or dispensing. In cold weather conditions, it is recommended that the drums be protected with a heating jacket prior to use. Please contact our technical department for information on setting up plural component dispensing machines.

Application general guidelines:

Component A (ISO) temperature: 70-75 °C

Component B (POLYOL) temperature: 60-67°C

Hose temperature: ±70 °C

Working pressure: 2.500 - 3.000 psi (170 to 205 bar)

For additional application information please contact our technical department.

Do not walk on membrane for 24 hours after application.

CONSUMPTION

Minimum total consumption: **1.5-2.0 kg/m²**.

CLEANING

Cured polyurethane is very difficult to remove. Spillages should be kept to a minimum and cleaned up immediately. A special solvent is available for cleaning and flushing of the lines.

PACKAGING

Drums

205 kg component B

198 kg component A

SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C.

SAFETY INFORMATION

The MSDS (Material Safety Data Sheet) is available on request.

TECHNICAL SPECIFICATIONS

In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION	
			COMP. A	COMP. B
Viscosity (BROOKFIELD)	cP	ASTM D4287, @ 25 °C	1,000-2,000	1,000-1,500
Gel time	sec	-	20-30	
Cure time	hours	-	24	

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The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	250
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
Tensile strength at break @ 23 °C	(N/mm ²)	ASTM D412 / EN-ISO-527-3	8
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 550
Tear resistance	[KN/m]	-	> 30
Water vapour transmission	gr/m ² .hr	ASTM E96 (Water Method)	0.8

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