

## HYPERDESMO®-ADY-2K

### Two-component, 100% solids, fully aliphatic, polyurethane top-coat / paint.

#### DESCRIPTION

**HYPERDESMO®-ADY-2K** is a two-component, 100% solids, fully aliphatic polyurethane top-coat / paint, which, once cured, produces a tough membrane with, specifically, high resistance to abrasion and chemicals.

It contains high quality inorganic fillers and pigments, which result in excellent hiding power in one only coat and, hence, significantly reduced consumption and application time. Further, it is thixotropic, which also makes it highly suitable for application on vertical substrates in, again, just one coat. Last but not least, due to its 100% aliphatic backbone, there is no yellowing as a result of direct exposure to sunlight.

Apply with roller or rubber squeegee in one or two coats. Maximum total consumption: 0.5 kg/m<sup>2</sup>.

#### RECOMMENDED FOR

Use as protective & UV resistant top-coat on:

- Polyurethane flooring systems (HYPERFLOOR™ System),
- hot cure, spray applied polyurea (HYPERDESMO®-POLYUREA-2K-HC).

Also, for use as a UV resistant polyurethane paint for floors and swimming pools.

#### LIMITATIONS

Not to be applied:

- In thick coats of more than 0.5 kg/m<sup>2</sup>,
- on unsound substrates.

#### FEATURES & BENEFITS

- Solvent-less, 100% solids.
- Fully aliphatic, no yellowing resulting from UV

exposure.

- Long pot-life, short curing time.
- Strong and uniform adhesion over the entire surface.
- Unsurpassed hiding power.
- Excellent resistance to heat, it will not yellow, peel or soften up to 80 °C.
- Very high resistance to mechanical stresses (high tensile strength and abrasion resistance).
- Outstanding resistance to chemicals and hydrolysis.

#### APPLICATION PROCEDURE

Clean the surface using jet water, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes, etc. must also be removed. Glassy surfaces must either be grinded or primed with PRIMER-T. (Further primer information available on request from our tech. department.) The application surface must be **dry**.

#### Mixing:

Stir comp. B thoroughly before mixing with comp. A (the resin). Mixing can either be done manually or with a low speed (300 rpm) mixer.



**Let the mix stand for approximately 10 minutes (this is a necessary induction time) and then proceed to a second round of stirring.**

HYPERDESMO®-ADY-2K has a relatively long pot life of more than 30 minutes and a relatively short drying time of 3-4 hours. To prolong its pot life,

## HYPERDESMO<sup>®</sup>-ADY-2K

either empty the mix directly on the application surface or in a wide and shallow container.

### Application:

Apply with roller or rubber squeegee in one or two coats. Do not exceed 48 hours between coats.

### CONSUMPTION

Maximum total consumption: **0.5 kg/m<sup>2</sup>**.

### CLEANING

Clean tools and equipment first with paper and then using SOLVENT-01. Rollers will not be reusable.

### PACKAGING

4.5 kg (1.5 kg + 3 kg) & 15 kg (5 kg + 10 kg).

### SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25 °C. Once opened, use as soon as possible.

### SAFETY INFORMATION

HYPERDESMO<sup>®</sup>-ADY-2K is free of solvents. Nevertheless, you are advised to observe the standard safety rules: Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. The M.S.D.S. (Material Safety Data Sheet) is available on request.

### TECHNICAL SPECIFICATIONS

#### In liquid form (before application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield) of mixed components.	cP	ASTM D2196-86, @ 25 °C	5,000 - 7,000
Pot life of mix @ 25 °C & RH 55%	mins.	-	30
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	3 - 4
Recoat time	hours	-	8 - 48

#### The cured membrane:

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	-40 to 80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore D	ASTM D2240 / DIN 53505 / ISO R868	> 60
Percent elongation @ 23 °C	%	ASTM D412 / EN-ISO-527-3	> 80

## HYPERDESMO® -ADY-2K

QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C)	-	ASTM G53	passed (3,000 hours)
Hydrolysis (Potassium Hydroxide 8%, 10 days @ 60 °C)	-	-	no significant elastomeric property change
Hydrolysis (Sodium Hypochlorite 16%, 10 days)	-	-	no significant elastomeric property change
Water absorption	-	-	0.5%

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