

## DATA SHEET

### DESMOVER

**SERIE 45450000 Semi Gloss- SERIE 45470000 Matt**

#### Description

Two component aliphatic isocyanate cured acrylic polyurethane finish coating

#### Use and principal characteristic

- A high performance, heavy duty polyurethane finish, for use in severe chemically corrosive environments.
- Offers superior colour and gloss retention combined with excellent chemical resistance properties.
- Provides heavy duty protection with longer term aesthetic value.
- Tough and abrasion resistant
- Will cure even at temperature down to 5°C.
- Resistant to splash of mineral and vegetable oils, white spirit, paraffins and aliphatic petroleum products.
- Easy application, both by airless spray, and brush or roller
- Heat resistance 120°C continuous and 150°C discontinuous service in dry surroundings

#### Resistance to

<u>Exposure</u>	<u>Fumes</u>
Acids, Dilute	Very Good
Alkalies, Dilute	Good
Salts	Excellent
Water	Excellent

#### Flexibility

Good

#### Abrasion resistance

Excellent

#### Weathering

Excellent

#### Basic data at 20°

#### Colour and gloss

R.A.L. - Semi gloss and matt

#### Mass density

approx. 1,260 g/cm<sup>3</sup>

#### Solids content by volume

approx. 55% by volume

#### VOC

396 g/l

#### Recommended dry film thickness

25- 60 mm in one coat application, depending on system

**THICKNESS****Coverage theoretical**

13,7 m<sup>2</sup>/l for 40 µm. The practical coverage will be less, depending on, application technique, job conditions and type of surface to be coated

**Set - to - touch**

1-2 hours, at 20° C

**Full cured**

7 days at 20° C- see additional data

**Overcoating interval**

minimum : 12 hours. see additional data  
maximum : unlimited

**Shelf life**

Base 12 months in cool and dry place; hardener, 6 months.

**Shipping weight**

Base	45450000	25 kgs
Hardener	45120220	5 kgs
Thinner	45100148	25 - 5 l

**Flash point (DIN 53213)**

Base	35° C
Hardener	38° C
Thinner	23° C

**Surface preparation and application condition**

Previous coat; (epoxy or polyurethane) dry and free from any contamination and sufficiently roughened if necessary.  
During application and curing a substrate temperature down to -5°C is acceptable provided the substrate is free from water or ice.  
Substrate temperature should be at least 3°C above dew point. Maximum relative humidity during application and curing is 85%

**Material preparation**

Product is supplied in pre measured standard pails so that the right ratio is reached by mixing one pail of base product with one pail of binder. If smaller quantities are required, the ratio by weight is:

Base product	100 p.
Hardener	20 p.

Thinner should be added after mixing the components.  
The temperature of the mixed base and hardener should be above 15°C otherwise extra solvent may be required to obtain application viscosity.  
Too much solvent results in lower sag resistance and slower cure  
Protect mixed paint from humid conditions which can shorten pot life.  
Equipment must be dry.  
Use moisture traps in all air lines

**Induction time**

None

**Pot life at 20°**

12 hours; see additional data

**Airless spray**

Recommended thinner	cod. 45100148; <i>up to 10% for one coat application of 60 µm dft</i>
Nozzle orifice	approx. 0,46-0,53 mm (= 0,013-0,018 inch)
Nozzle pressure	15 MPa (= approx. 150 at. - 2100 p.s.i. ) with 30-45 : 1 compression ratio

**Air spray**

Recommended thinner	cod. 45100148 <i>15 - 20%, depending on dft to be applied</i>
Nozzle orifice	1 - 1,5 mm
Nozzle pressure	0,3 - 0,4 MPa (= approx. 3 - 4 at. - 40 - 60 p.s.i. )

<b>Brush/Roller</b>	cod. 45100148 ; 0 - 5%
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<b>Cleaning Solvent</b>	cod. 99100151
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<b>Additional Data</b>
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<b>Spreading rate</b>	<u>Theoretical spreading rate</u>			
	grams per square metres	60	120	168
	square metres per kg.	16,6	8,3	5,9
	dry film thickness in µm	25	50	70
	max. dft without sagging with airless spray			100 µm
	min. dft for closed film with airless spray			45 µm
	max. dft when brushing			70 µm

<b>Pot life (application viscosity)</b>	10° C	16 hour	the figures are valid for quantities of approx. 6 kgs
	20° C	8 hour	
	30° C	6 hour	
	40° C	4 hour	

<b>Overcoating table</b>	Substrate temperature	-5° C	10° C	20° C	30° C	40° C
	Minimum interval	60h	24h	12h	8h	5h
	Maximum interval	no limitation, when cleaned from contamination				

<b>Curing table</b>	Substrate temperature	Dry to handle	Full cure
	-5° C	48 hours	20 days
	0° C	24 hours	16 days
	5° C	18 hours	12 days
	10° C	12 hours	10 days
	15° C	8 hours	8 days
	20° C	6 hours	7 days
	30° C	5 hours	5 days
	40° C	3 hours	3 days
	<i>* adequate ventilation is required during application and curing</i>		

<b><u>SAFETY PRECAUTIONS</u></b>	<b><u>WARNING</u></b> VAPOUR HARMFUL, MAY CAUSE IRRITATION. COMBUSTIBLE. CONTAINS ORGANIC SOLVENTS Avoid contact with eyes, skin and clothing. Avoid breathing vapour. Wash thoroughly after handling. Use with adequate ventilation. Wear an air supplied mask to avoid breathing concentrated vapours in enclosed areas. Close container after use. Keep away from heat, sparks, and open flame. In case of eye contact, immediately flush with plenty of water for at least 15 minutes.
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