

DESCRIPTION

Double Coat Matt is a matt two component finish based on saturated polyester resins and modified aliphatic isocyanate hardeners.

PRINCIPAL CHARACTERISTICS

- Easy to apply, see additional information;
- Good resistance to various chemicals;
- Excellent scratch and mar resistance;
- Excellent colour retention;
- Good adhesion to various materials (even without the use of primers);
- Suitable as finishing coat in two component paint systems for properly pre-treated wood, steel, aluminium, epoxy, GRP, ABS, etc.

COLOURS AND GLOSS

Transparent, white or black, other colours on request – Matt

BASIS PROPERTIES (AT 23 °C AND 50% R.H.)

Density	: approx. 1,2 g/cm ³ (depending on colour)
Solid content	: approx. 52 % (volume)
Recommended d.f.t.	: 35 - 70 µm (dry), depending on application, see additional information
Dust dry after	: approx. 2 hours
Full cure after	: approx. 5 days, see additional information
Recoating interval	: min. 24 hours, see additional information max. unlimited, provided gritpapered, clean and dry
Shelf life	: separate components, stored cool and dry in original packaging, minimum 12 months
Flash point (DIN53213)	: Double Coat base component 44 °C Double Coat hardener 45 °C

SPREADING RATE

At 35 µm (d.f.t.)	: 12,3 m ² /kg (14,8 m ² /l)
At 50 µm (d.f.t.)	: 8,6 m ² /kg (10,4 m ² /l)
At 70 µm (d.f.t.)	: 6,2 m ² /kg (7,4 m ² /l)

The practical spreading rate depends on a number of variables, such as: shape and size of object to be painted, the condition and profile of the substrate, the method of application, climatologic conditions and skill of labour.

SUBSTRATE CONDITION AND TEMPERATURE

All substrates : clean and dry, in good condition, free from any contamination and loose particles, pre-treated with IJmopox ZF primer, IJmopox HB coating or Variopox Injection resin and Double Coat high gloss, sanded with grit paper P320.

During application and curing a minimum temperature of 15 °C is allowed. The temperature of the substrate should be minimum 3 °C above dew point.

INSTRUCTIONS FOR USE

Before use, mix base and hardener components thoroughly.

Mixing ratio : 67,0 base : 33,0 hardener (by weight)

The mixing ratio by volume depends on colour.

Do not prepare more material than can be applied within the pot life of the mixture.

Induction time : 30 minutes at 20 °C
 Pot life : 2 hours at 25 °C (depending on colour)
 3 hours at 20 °C (depending on colour)
 4 hours at 15 °C (depending on colour)

Application with :

	Brush/roller ¹	Air spray	Airless spray
Type thinner	Brush thinner	Spray thinner	Spray thinner
% of thinner	3 - 5 %	5 - 15 %	0 - 5 %
Nozzle orifice	n.a.	1.2 - 1.4 mm	0.009 - 0.011 inch
Nozzle pressure	n.a.	2 - 3 bar	160 Bar
Cleaning	Brush thinner	Spray thinner	Spray thinner

¹ Application by brush or roller may lead to visible brush or roller marks

ADDITIONAL INFORMATION

- Recoating and curing of Double Coat Matt

	15 °C	20 °C	25 °C
Minimum	32 hours	24 hours	16 hours
Maximum, with Double Coat Matt, without sanding	3 days	2 days	1 day
Maximum, after sanding with grit paper P320-P400	unlimited	unlimited	unlimited
Fully cured after	10 days	5 days	3 days

- Recommended filmthickness
 The recommended filmthickness in this datasheet is for each separate layer and depends on application method. How many layers are recommended depends on the field of application, the exposure conditions and type of substrate. The total necessary number of layers can be found in the paint system recommendation.
- Application of Double Coat Matt by brush or roller
 - The best results are achieved by spray application. Brush or roller application may lead to brush or roller marks.
 - Adjust the viscosity with Double Coat Brush thinner to 50 to 55 s DIN 4 after the induction time.
 - Use oval brushes or solvent resistant mohair or moltoprene rollers.
- Application of Double Coat Matt by spray
 - Application of Double Coat Matt by spray is only recommended for professional users only;
 - Clean spray equipment thoroughly with clean Double Coat Spray thinner before start of application.
 - Adjust the viscosity with Double Coat Spray thinner to 18 to 20 s DIN 4 after the induction time.
 - Apply a mist coat first, followed by a full cross layer after 15 minutes.
 - Depending on size and shape of the object to be coated and the temperature during application, Double Coat Spraythinner may be replaced by Double Coat Spraythinner 60. Double Coat Spraythinner 60 is a slow evaporation thinner, improving levelling and reducing overspray.
- Sanding Double Coat Matt
 The best adhesion and gloss is achieved by sanding Double Coat between each coat. Use for every layer a finer grit paper, starting from P240-P320-P360-P400.
- Use of Double Coat Matt
 Double Coat Matt is less suitable for exterior exposure conditions compared to Double Coat High gloss.

SAFETY INFORMATION

See the corresponding Material Safety Data Sheet for detailed instructions on safety, disposal and health.

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Disclaimer

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