

Diepal Topcoat ST

Technical Data Sheet Topcoat ST

PRODUCT DESCRIPTION

Diepal Topcoat ST is a transparent topcoat based on a pre-accelerated polyester resin consisting of a combination of neopentyl glycol with isophthalic acid, which can be coloured with our colour pastes.

CHARACTERISTICS AND INTENDED USE

- Slightly thixotropic, no tears on vertical surfaces;
- Pre-accelerated;
- Fast curing;
- Excellent filling power;
- Dries out without sticking;
- Suitable as a protective layer for the rough side of fiber-reinforced polyester such as on the inside of boats, tanks, silos, body components, hoppers, truck floors, etc.;

BASIC DATA (AT 20°C AND 50% REL. L.F.)

Density	approx. 1.1 to 1.3g/cm ³
Solids	approx. 100% (Volumen)
Recommended layer thickness	300 – 400µm (dry layer), depending on the application
Dust-dry after	15 minutes
Fully cured after	2 hours
Can be repainted according to	min. 2 hours, see additional information max. Unlimited, if ground, clean and grease-free
H.D.T. (DIN53458)	approx. 80°C
Shelf life	not mixed, in closed original containers with cool, but frost-free, dry storage for at least 3 months
Flash point	Base 34°C (DIN53213) Hardener 52°C (MEK Peroxide)

YIELD

At 300µm (dry layer) : approx. 2.4m²/kg

At 350µm (dry layer) : approx. 2.1m²/kg

At 400µm (dry layer) : approx. 1.8m²/kg

The practical yield depends on various factors such as the shape of the object, the condition and profile of the surface, the method of application, the weather conditions and the competent application.

SUITABLE SUBSTRATES, PRE-TREATMENT AND TEMPERATURE

Polyester laminate: Dry and free of grease, dirt, old (synthetic) paint layers and other impurities, sanded with sandpaper P60-80 and treated with degreaser.

During application and curing, the temperature must be at least 15 °C. The temperature of the substrate must be at least 3°C above the dew point.

PROCESSING INSTRUCTIONS

Stir the individual components well before use. Add the hardener to the base and stir in carefully.

Mixing ratio : 100.0 base / 2.0 hardener (weight percentages)

Do not mix more than can be applied within the pot life.

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Pot life: 10 minutes at 25°C
 15 minutes at 20°C
 20 minutes at 15°C

ADDITIONAL INFORMATION

Paint over Diepal Topcoat ST

	15°C	20°C	25°C
Minimum, with Diepal Topcoat ST, after degreasing and sanding with P60-80	2 hours	2 hours	2 hours
Minimum, with epoxy or double coat, after degreasing and sanding with P60-80	24 hours	24 hours	24 hours
Maximum, with Diepal Topcoat ST, Epoxy or Double Coat, after degreasing and sanding with P60-80	Unlimited	Unlimited	Unlimited

Diepal Topcoat ST contains additives, which is why the layer is tack-free. These additives can impair the adhesion of subsequent layers. If several coats of Diepal Topcoat ST are applied, we recommend replacing the first coats with a gelcoat.

Application Diepal Topcoat ST

- For brush application, use brushes with a colorless handle.
- Apply Diepal Topcoat ST evenly to avoid thin spots. When brushing or roller application, do not paint longer than necessary in the wet layer. This can interfere with film formation, so that Diepal Topcoat ST does not cure completely adhesive-free.
- Do not apply Diepal Topcoat ST over existing (synthetic) paint layers; this can affect the reaction between binder and hardener. As a result, Diepal Topcoat ST does not dry out without sticking.

Pre-accelerated

Diepal Topcoat ST is already pre-accelerated with a combination of special accelerators and activators.

Hardener

As a hardener for Diepal Topcoat ST, we recommend MEKP hardener Norox KP-9. When mixing the binder with the hardener, an exothermic reaction results in a strong warming. Never mix more Diepal Topcoat ST than you can apply within the pot life.

SAFETY INFORMATION

For more detailed information, see the safety data sheets Diepal Topcoat ST and hardener Norox KP-9.

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