POLY LAK ORTHO ED

DESCRIPTION

Poly Lak ortho ED is a topcoat based on a pre-accelerated orthophtalic unsaturated polyester resin durable pigments.

PRINCIPAL CHARACTERISTICS

- Thixotropic, reduces sagging on vertical surfaces;
- Pre-accelerated;
- Rapid curing;
- Excellent hiding power and filling properties;
- Results in a tack-free surface;
- Protective coating for reinforced polyester laminates such as interior parts of boats, exterior parts of storage tanks and silo's, auto parts, floorings for trucks, etc.;
- Available in two qualities: for brush application and airless application.

COLOURS AND GLOSS

YT 400 white, YT 431 dustgrey, RAL 7035, RAL 9001, RAL 9003, RAL 9010 – Silk gloss

BASIS PROPERTIES (AT 20°C AND 50% R.H.)

Density	:	approx. 1,4 g/cm3 (depending on colour and type)
Solid content	:	approx. 100 % (volume)
Recommended d.f.t.	:	300 - 400 µm (dry), depending on application
Dust dry after	:	15 minutes
Full cure after	:	2 hours
Recoating interval	:	min. 2 hours, see additional information max. no limit, provided clean and dry
H.D.T. (DIN53458)	:	approx. 65 ºC
Shelf life	:	separate components, stored cool and dry in original packaging, minimum 3 months
Flash point (DIN53213)	:	base component 34 ºC hardener component 52 ºC (MEK peroxide)

SPREADING RATE

At 300 µm (dry film)	:	approx. 2,4 m2/kg
At 350 µm (dry film)	:	approx. 2,1 m2/kg
At 400 µm (dry film)	:	approx. 1,8 m2/kg

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

Polyester laminate	:	clean and dry, in good condition, free from any contamination, loose particles and previous (synthetic) paints; sanded with gritpaper P60 – P80 and degreased with Double Coat Degreaser;

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

INSTRUCTIONS FOR USE

Before use, mix base and hardener components thoroughly.

Mixing ratio	:	100 base : 2 harder (by weight) Do not prepare more material than can be applied within the pot life of the mixture.

Induction time : none
Pot life : airless version: brush version:
5 minutes at 25 °C 10 minutes at 25 °C
10 minutes at 20 °C 15 minutes at 20 °C
15 minutes at 15 °C 20 minutes at 15 °C
The pot life depends also on colour.

Application with :

		Only airless version	
	Brush	Airless spray, external mixing	Airless spray, internal mixing
Type of thinner	n.a.	n.a.	n.a.
% of thinner	n.a.	n.a.	n.a.
Nozzle orifice	n.a.	0,016 inch	0,023 inch
Nozzle pressure	n.a.	150 bar	150 bar
Cleaning with	Double Coat Degreaser, Ethylacetate or Acetone		

Application by airless is only possible with the special airless version of Poly Lak ortho ED.

ADDITIONAL INFORMATION

- Recoating Poly Lak ortho ED

	15 °C	20 °C	25 °C
Minimum, with Poly Lak ortho ED, after degreasing and sanding with P60-P80	2 hours	2 hours	2 hours
Minimum, with epoxy or Double Coat, after degreasing and sanding with gritpaper P60-P80	24 hours	24 hours	24 hours
Maximum, with epoxy, Double Coat or Poly Lak ortho ED, after degreasing and sanding with gritpaper P80	no limit	no limit	no limit

The minimum and maximum interval depend also on colour. Poly Lak ortho ED contains additives to ensure tack-free curing. These additives might reduce adhesion of subsequent layers. When more layers of Poly Lak ortho ED are required, we recommend to replace the first layer with a gelcoat, e.g. Poltix Gelcoat Ortho.

- Application Poly Lak ortho ED
  - For application by airless spray use the special airless quality of our Poly Lak ortho ED.
  - For brush application use brushes with unpainted handles.
  - Apply Poly Lak ortho ED evenly, without runs or sags, avoiding holidays and thin spots. Apply Poly Lak ortho ED in one coat, do not return too often with brush or roller in already applied, wet Poly Lak ortho ED. This could result in a tacky surface after curing.
  - Do not apply Poly Lak ortho ED to a warm surface or at higher temperatures. A too low temperature will result in longer curing. Application to a warm surface or at higher temperatures will distort film formation and could result in a tacky surface after curing.
  - Do not apply Poly Lak ortho ED on top of previous (synthetic) coatings. This will distort curing resulting in a tacky, uncured film.

- Pre-accelerated
  Poly Lak ortho ED is pre-accelerated with a combination of special accelerators and promoters

POLY LAK ORTHO ED

- Chemical resistance
  The resistance against chemicals (such as used in swimming pools) may vary depending on colour. Please contact our sales department for further information.

- Hardener
  As hardener/catalyst we recommend Butanox M50 (Akzo Nobel) or Peroxan ME50L (Pergan). After mixing the base component with the harder the temperature of the mixture will increase rapidly due to an exothermic reaction. Do not prepare more material than can be applied within the pot life of the mixture.

SAFETY INFORMATION

This product contains solvents. Take all necessary safety measurements when using this product and arrange proper ventilation and safety equipment for all personnel. For details on safety and health see our material safety data sheet.

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Disclaimer
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