DESCRIPTION

Poly Lak SF is a special styrene free topcoat (**SF**) based on a pre-accelerated unsaturated polyester resin. The topcoat is produced with durable pigments and available in any (uni) color.

PRINCIPAL CHARACTERISTICS

* Thixotropic, reduces sagging on vertical surfaces;
* Pre-accelerated;
* 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.;
* Excellent scratch and impact resistance;
* Available in in a brush (-**B**) or spray (**-S**) viscosity.

COLOURS AND GLOSS

Every (uni) colour according to RAL or NCS colour fan, other colours on request

BASIC 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 : 4 ours

Full cure after : 6 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 : brush version:

 10 minutes at 25 ºC

 15 minutes at 20 ºC

 20 minutes at 15 ºC

 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. |  |  |
| Cleaning with | Double Coat Degreaser, Ethyl acetate or Acetone |

Application by airless is only possible with the special airless version of Poly Lak SF-S.

ADDITIONAL INFORMATION

* Recoating Poly Lak SF

The minimum time before recoating is strongly influenced by the temperature, layer thickness and time. Poly Lak SF contains additives by which the layer dries tack-free after complete curing. This process takes longer than a traditional polyester topcoat. Adding extra peroxide will significantly shorten the pot life but will have little influence on the final drying. When multiple layers of Poly Lak SF are applied, we recommend replacing the first layer or layers with a Poltix Gelcoat SF

|  |  |  |  |
| --- | --- | --- | --- |
|  | 15 oC | 20  oC | 25 oC |
| Minimum, with Poly Lak SF, after degreasing and sanding with P60-P80 | 4 hours | 2 hours | 1.5 hours |
| Minimum, with epoxy or Double Coat, after degreasing and sanding with gritpaper P60-P80 | 24 hours | 24 hours | 24 hours |
| Maximum, with Poly Lak SF, epoxy or Double Coat after degreasing and sanding with gritpaper P80 | no limit | no limit | no limit |

* Application of Poly Lak SF
	+ For application by airless spray use the special airless quality, our Poly Lak SP-S.
	+ For brush application use brushes with unpainted handles.
	+ Apply Poly Lak SF evenly, without runs or sags, avoiding holidays and thin spots. Apply Poly Lak SF in one coat, do not return too often with brush or roller in already applied, wet Poly Lak SF. This could result in a tacky surface after curing.
* Do not apply Poly Lak SF to a cold surface. A too low temperature will result in longer curing.
* Pre-accelerated
Poly Lak SF is pre-accelerated with a combination of special accelerators and promoters
* Chemical resistance
The UV resistance and resistance to chemicals may differ per color. We recommend that you test the product in advance for your application. If necessary, please contact our sales department for advice.

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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