POLTIX RESIN M-EB

DESCRIPTION

Poltix Resin M-EB is a pre-accelerated, bisphenolA vinylester-urethane laminating resin.

PRINCIPAL CHARACTERISTICS

- Light thixotropic
- Pre-accelerated, rapiod curing but low peak exotherm;
- Good flexibility and resistant to chemicals and elevated temperatures;
- Resistant to aqueous solutions of chemicals, both acidic or alkaline;
- Low styrene emission, results in a tack-free surface;
- Low shrinkage when used in combination with reinforcing materials;
- In combination with a glass fibre skin coat recommended as first layer in osmosis repair systems for (peeled) GRP boats;
- In combination with a glass fibre skin coat recommended as first coat after Poltix Gelcoat M-EB for the construction of high quality moulds.

COLOURS AND GLOSS

Transparent – Eggshell

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

Density	:	approx. 1,1 g/cm^3
Solid content	:	approx. 100 % (volume)
Recommended d.f.t.	:	depending on application
Gel time	:	approx. 20 minutes
Full cure after	:	approx. 2 hours
Laminating after (moulds)	:	min. 2 hours max. 4 hours, without sanding
Recoating after (osmosis repair)	:	min. 48 hours, see additional information max. Unlimited, provided clean and dry
H.D.T. (ISO 75A)	:	115 °C
Water absorption (ISO R62)	:	0.16%
Shelf life	:	separate components, stored cool and dry in original packaging minimum 6 months
Flash point (DIN53213)	:	base component 31 °C hardener 52 °C

SPREADING RATE

The practical spreading rate depends on the type of reinforcing materials applied. The following table gives an indication of the average resin consumption when combined with several materials:

Type	Resin each m^2	D.f.t.
Glasmat 80 gram/m^2	200 gram	185 µm
Glasmat 150 gram/m^2	300 gram	300 µm
Glasmat 225 gram/m^2	600 gram	600 µm
Glasmat 300 gram/m^2	700 gram	700 µm
Glasmat 450 gram/m^2	1100 gram	1100 µm
Rovingweefsel 600 gram/m^2	900 gram	900 µm

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

Poltix Gelcoat M-EB
(moulds) : dry and free from oil, grease, contamination and loose particles;

Polyester
(osmosis repair) : dry and free from contamination and loose particles, free from old layers of paint, gelcoat, etc, sanded with grit paper P180

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 : 100 base : 1 to 2½ hardener (parts by weight)
Do not prepare more material than can be applied within the potlife of the mixture.

Induction time : none
Pot life : 15 minutes at 25 °C
20 minutes at 20 °C
25 minutes at 15 °C

Application with :

	Brush
type thinner	none
% of thinner	
nozzle orifice	none
nozzle pressure	none
cleaning	Double Coat Brush thinner or Double Coat Degreaser

ADDITIONAL INFORMATION

- Recoating Poltix Resin M-EB (osmosis repair):

	15 °C	20 °C	25 °C
Minimum, with IJmopox, Variopox or Double Coat	24 hours	24 hours	24 hours
Minimum, with Poly Lak	4 hours	4 hours	4 hours
Maximum, after degreasing and sanding with P120 – 180	unlimited	unlimited	unlimited

- Application of Poltix Resin M-EB
  - Poltix Resin M-EB is recommended for hand-layup or spay-up. Spray-up is only recommended with special two component spray equipment.
  - For brush application use brushes with unpainted handles.
  - Apply a generous coat of Poltix Resin M-EB. Place a glass fibre in the wet layer of Poltix Resin M-EB and apply with a brush by pressing the brush onto the fibre at right angle. Remove air bubbles using a Teflon or aluminium deaeration roller.

- 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.

POLTIX RESIN M-EB

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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