

PRODUCT DESCRIPTION

C-Pox TL830 is a solvent free epoxy varnish. Its main properties are:

- Excellent chemical resistance
- Free of organic solvents.(*)

INTENDED USES

It is specially recommended for the repair and reinforcement of tanks, affected by corrosion, generally applied with glass fibers (contact our Customer Service for more information about the glass fiber to be used).

It is suitable as tank lining for non potable water, crude, gas-oil, fuel-oil, kerosene and aliphatic solvents.

PROPERTIES

| | |
|------------------------------|---|
| Finish | Gloss |
| Colour | Transparent (0000) |
| Components | 2 |
| Mixing ratio (volume) | Resin 7M-831 1,67 parts Cure 7M-832 1 part |
| Pot-life | Aprox. 30 min. (variable with temperature and mixed volume) |
| Volume solids | 100% (theoretical value) (*) This product is solvent free. However, it contains reactive components that, under certain circumstances may not fully react, producing a residual volatile content. Experimental values under ISO 3233 can vary between 95% and 100%. |
| Specific weight | 1,109 g/ml ± 0,02 g/mL |
| Dry film thickness | 180 - 220 µm per coat |
| Number of coats | 1 |
| Theoretical coverage | 400 g/m ² This is only an approximation, as coverage depends on the substrate where the coating is applied and the applicator. |
| Application method | Brush (short hair) or roller (short hair) |

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7M-830 C-POX TL830**Tank lining solvent free epoxy varnish**

Revision: May 2016

Drying times

at 20°C, 60% RH and 200 µm:

Total dry: 16 hours
Recoat: 24 hours

Drying times are dependent on temperature, ventilation and film thickness

SURFACE PREPARATION

Abrasive blasting is recommended to Sa2½ following EN ISO 8501-1.

Surface must be clean, dry and with no dust, grease or other contaminants. If necessary, apply a protection shopprimer like C-Pox Primer ZP150, c-Pox Primer SP120 or Cincoat Primer IZS980 SP.

PAINT SYSTEMS**Repair**

Small holes can be filled with a mix of silica diameter 0,1-0,5 mm, and varnish with a ratio 1/0.5. This mixture can also be used for the perimeter of the tank.

Stratification

-Apply a first coat of C-Pox TL830 with 200 µm thickness

-Immediately afterwards, apply a layer of fibre glass of 300 g/m² type Mat (C5M). This layer has to be fully wetted with C-Pox TL830, using rollers to eliminate air bubbles and to compact the fibre. If any hole is left, more epoxy resin will be applied to fill them. The union between the different fibre pieces must have a minimum overlapping of 10 cm, applying in this case a new coat of C-Pox TL830 to improve the adhesion between the fibre pieces.

-Within the next 24 h, apply a new layer of fibre following the process described previously

-Apply a coat of C-Pox TL830 with a fibre of 30 g/m² (Crackgon type) with a thickness of 350 – 400 µm. Compact the fibre and remove air with rollers.

-Apply a final coat of C-Pox TL830 with approx. 200 µm thickness.

C-Pox TL830 consumption: 1,1 kg/m²Average final consumption for the recommended thicknesses: 2 kg/m²

Approx. Final dry thickness: 2,5 mm

APPLICATION

Add the “cure” component to the resin “component” and stir until complete homogenization (5 minutes). In closed areas there must be good ventilation during application and drying until the solvents have evaporated.

Environmental applications

Air temperature ≥12°C

Relative humidity ≤ 85%

Minimum surface temperature 3°C above dew point

Application Equipment:**Brush, roller, dentate palette knife, airless spray**

Thinning 0%

Cleaner: 52-510.0000 (Dil. Industrial)

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ADDITIONAL
INFORMATION**Curing mechanism** –Chemical reaction between components**Volatile Organic Compounds (COV)**

Supplying form: < 187 g/L (TVOC: < 17%)

COV Cleaner: 864 g/L (100%)

Flash Point (Closed Cup)

Resin 121°C

Cure 104°C

Cleaner 4°C

Packaging

Resin 20 kg

Cure 12 kg

Storage

Stored indoors in original containers at 5 to 40°C, Resin: 2 years, Cure: 2 years.

When stored at low temperatures, the cure component (7M-832) may increase in viscosity and crystallize. This process does not interfere in the quality of the product and it is reversible by heating it at approx. 60°C

HEALTH, SAFETY AND THE
ENVIRONMENT

Protect the eyes and skin from contact, gloves, goggles and appropriate clothing should be worn. Keep out of the reach of children. Use only in well ventilated areas. Do not empty into drains. Keep the container properly sealed and stored in the correct place. Take correct measures when transporting the product so as to avoid any accidents that could rupture the can or cause damage to the packaging. Ensure that the container is correctly stacked in a safe area. Do not store or use the product in extreme temperature conditions. Always take account of the appropriate legislation relating to the environmental and Health and Safety at Work. For more information **it is essential to read the label on the container and the product MATERIAL SAFETY DATA SHEET of this product, its components and all complementary products referred on Technical Data Sheet.**

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