Polyguard EPGF 4977

SOLVENT FREE EPOXY WITH GLASSFLAKE

Product Description:

Polyguard EPGF 4977 is a two-component solvent free high–build, polyamine adduct cured epoxy paint contains Glass flake, which cures to a coating with good resistance to fresh water.

Typical Uses:

Polyguard EPGF 4977 is recommended as a lining in potable water tanks and pipelines and as a self-primed, high-build coating primarily for areas subject to abrasion and to a highly corrosive environment.

Technical Properties:

Color / Shades	Red & Grey
Gloss	Semigloss
Volume Solids	100%
Specific Gravity	1.6 Kg/L
Mix ratio	3:1 by volume
Typical Thickness	300-500 micron [11.8-19.6 mils] dry equivalent to 300-500 microns [11.8-19.6 mils] wet
Coverage	2 m^2/liter at 500 microns DFT (theoretical)
Flash Point (Typical)	***37^{0}C (98^{0}F)***
VOC	< ***250 g/L***, [2.08 lb/US gal] – EPA Method 24
Reducer/Thinner	-
Cleaner	Thinner C1

Drying Time

Surface Temperature		**10°C**	**20^{0}C**	**30^{0}C**	**40^{0}C**
Touch dry		10 Hours	4 Hours	2 Hour	1 Hour
Hard dry		16 Hours	6 Hours	2.5 Hours	2 Hours
Recoat	Minimum	18 Hours	10 Hours	7 Hours	3 Hours
	Maximum	30 Days	30 Days	21 Days	14 Days
Cure to Service		14 days	7 Days	3 Days	2 Days
Pot Life		-	-	30 Mins	-

The drying times mentioned are based on a dry film thickness of 500 microns (19.6 mils) under standard conditions.

Surface Preparation:

Cleanliness:

- Remove oil, grease, and other contaminants by suitable detergent cleaning.
- Remove salts, detergents, and other contaminants by high-pressure fresh water cleaning.
- Concrete: According to TRPL's specification.

New build:

- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media, and loose materials.

Maintenance and Repair:

- According to TRPL's Specification.
- Roughness - Surface profile Medium (G) (ISO 8503-2).

Concrete:
Remove slip agents and other possible contaminants by emulsion washing followed by high-pressure hosing with fresh water. Remove the scum layer and loose matter to a hard, rough, and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal the surface with a suitable sealer, as per the relevant painting specification.

Roughness:
Surface profile Medium (G) (ISO 8503-2).

Application

Application Method	Thinning	Application Parameters
Airless Spray	-	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.023-0.027"
Brush/Roller	-	Recommended for small areas and small touch-ups

If a brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment.

Overcoating Details:
- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure inter-coat adhesion.
- The surface must be dry and clean prior to application.
- As tank lining, if the maximum overcoating interval is exceeded, roughening of the surface by sweep abrasive blasting is necessary to ensure inter-coat adhesion.

Note:
- The material is supplied in two containers as a complete unit. Always mix the entire unit in the proportions provided.
- Stir the base thoroughly for optimal results and homogeneity.
- Combine the entire contents of the hardener (Part B) with the base (Part A) and mix thoroughly using a power mixer before spraying. Continue mixing until the entire compound has been used, or use a steel rod to ensure complete homogeneity of the mixture.

Application Conditions
- Optimal paint temperature for proper mixing, pumping and spraying is: 20-25 °C [68-77°F].
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.
- Surface temperature must be above 10°C [50°F] during application and curing.
- Relative humidity must be below 85% during curing.

Storage

Shelf Life: 12 Months, unopened

Storage Conditions: Store indoors at 4.5^{0}C [40^{0}F] to 38^{0}C [100^{0}F]
The product must be stored in accordance with national regulations. Keep the containers in a cool and dry place and well-ventilated area with no direct source of heat or light. Containers must be kept tightly closed when not in use.

Safety: Handle with care. Before & during use, observe all safety labels on packaging and paint containers, consult Material Safety Data Sheets, and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin & eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well-ventilated areas.

Disclaimer: The information in this document is given to the best of TRPL's knowledge, based on laboratory testing & practical experience. TRPL products are considered semi-finished goods, as such products are often used beyond TRPL's control. TRPL can not guarantee anything but the quality of the product itself. Minor product variations may be implemented to comply with local requirements. TRPL reserves the right to change the given data without further notice. User should always consult TRPL for specific guidance on the general suitability of the product for their needs and specific application practices.