



11.10 XPERT EPOXY T-100

Tar Coal Based, High Corrosion Resistance, Epoxy Coating.

PRODUCT DESCRIPTION:

XPERT EPOXY T-100 is a two-component system, consisting of Component A and Hardener Component B.

XPERT EPOXY T-100 Coating is resistant to acids, alkali, sour crude oil, fuel and diesel oil, sea water, sewage water and detergents etc.

It is recommended for severely corrosive environments, well suited for fresh and salt water immersion, as well as for acidic exposures. It has excellent adhesion to properly cleaned steel and concrete. XPERT EPOXY T-100 is also recommended for heated insulated piping after the pipe has been properly sandblasted.

MAJOR USES:

To provide protection to concrete and metal structures in aggressive environments such as:

- Storage Tanks
- Pipelines (Interior & Exterior)
- Structural Steels
- Sewage Treatments Plants
- Marine Structures.
- Sewage pipes and others.
- Harbour Installations.

ADHESION:

Best adhesion is obtained on properly prepared surfaces. Steel Should be Blast Cleaned, Concrete can be blast cleaned or wire brushed.

INTER COAT ADHESION:

Best inter coat adhesion is achieved by application on cured coats within

the specified periods, so as to make possible chemical interaction between the coats.

TECHNICAL PROPERTIES:

Colour	Black / Dark Brown
Components	2
Mixing Ratio	3:1
Volume Solids	80%
Flash Point	>20°C
Coverage	2.5-4m ² /Ltr
Specific Gravity	1.10Kg/Ltr
Pot Life @ 20°C @ 35°C	6 Hours 3 Hours
DFT	150 – 200microns
Surface Dry	8 hours
Initial Hardness	24 hours
Overcoating Interval	24 hours (min) 3-5 days (max)
Full Cure	7 days
Water Absorption	0.2%
Elongation at Break	30%
Tensile Strength	9.0 MPA

CHEMICAL RESISTANCE:

(Test results with some common chemicals)

Water	Excellent
Ammonia	Excellent
Sulphuric acid, 10%	Very Good
HCl, 15%	Very Good
Nitic acid, 10%	Good



Sodium Hydroxide	Excellent
Sewerage water	Excellent
Chlorine	Very Good
Vegetable Oil	Excellent
Ferric Chloride	Good
Turpentine	Excellent
Sea Water	Excellent

MIXING RATIO:

Type: Two Pack Mixing Ratio:
 Component A: 75% Parts by Volume
 Component B: 25% Part by Volume

POT LIFE OF MIXED COMPONENT:

6 Hours Minimum at 25 °C.

SURFACE PREPARATION:

The surface should be clean and sound, even and free from dust, dirt, paint, rust, algae, grease, soluble salt, or other contaminations. For cleaning use hand and power tools and cleaning chemicals and then use rust remover or sand blasting wherever required. Immediately after sandblasting the material is to be applied.

Concrete:

Remove curing compounds form oil, salts, laitance and other contaminants. Wash with multi etch solution and thoroughly rinse with water. Concrete should be clean and dry before coating.

Steel:

Surface should be sandblasted to a commercial grade. When the surfaces are to be subjected to severe

conditions, blasting to a near white grade is recommended.

MIXING:

Take volumetric ratio of Epoxy Coal tar Paint and Hardener, mix thoroughly for 3 to 5 minutes with paddle on low-speed drill. Mix only that quantity of Epoxy you can use in specified period. Thin down the paint to spraying or brushing consistency by Palikan Epoxy Thinner.

DRYING TIME:

- a) Surface Dry: 2-3 Hours.
- b) Tack Free: 6-8 Hours
- c) Hard dry: 18 -24 Hours.

APPLICATION:

XPert EPOXY T - 100 can be applied by brush, roller, airless. Airless spray is preferable since pin holing and overspray are minimized. For best results, use two coats 100 microns each. The first coat should be tack free before the second coat is applied. Tack free times increase with thicker films. In any event, not more than 24 hours should be allowed between coats.

Spray Data (Airless):

Nozzle Orifice	0.38 - 0.46mm
Nozzle Pressure	1138 – 1710 PSI
Dilution	0-5%

RECOAT ABILITY:

After 18 Hours and within 24 hours preferably

COMPLETE CURING OF FILM:

It takes Approximately 96 hours to obtain completely cured system after



application of final coat. However, we recommended for safety purposes, a period of 7 days from the date of application before the surface is exposed to specified materials.

RECOMMENDED COATS:

2 Coats minimum

GLOSS:

Semi-Glossy to Egg Shell.

AVERAGE CONSUMPTION:

2.5-4m²/Ltr per coat.

DRY FILM THICKNESS:

90-100 Microns per coat.

FLEXIBILITY:

Very Flexible and tenacious film.

IMPACT RESISTANCE:

Excellent.

SHELF LIFE:

6 Months in original Sealed Container

CAUTION:

Proper ventilation is required at the time of application

PACKING:

Epoxy Coal tar Paint is available in 4 and 20 litres unit

WARRANTY:

This product is warranted to be free of defects in material and workmanship, and conform to XPERT Construction Chemicals ("XPERT") quality control standards. All recommendations, statements and technical data herein

are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond XPERT's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product.

PHYSIOLOGICAL HAZARDS:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapour.