

## Technical data sheet

### Manacoat EPH-801

#### Product description:

Two-component Epoxy Phenolic Primer.

#### **Field of application and properties:**

Manacoat EPH-801 is specially designed as a high performance modified epoxy against chemical conditions. It is used in storage tanks , tank farms in chemical industries and aggressive & corrosive conditions.

Main characteristics are:

- Good resistance to hot water
- Excellent adhesion to steel and concrete.
- Excellent resistance to a wide range of acids, alkalis.

#### Technical data:

Type:	Epoxy polyamine
Color:	White /limited color
Number of components:	2
Texture:	Semi Gloss
Mixing ratio:	5/ 1 by weight
Volume solid:	76±2
Specific gravity:	1.5 ±0.05
Dry film thickness	100-200 microns
Touch dry at 25° C:	3 Hrs

Hard dry at 25° C:	24 Hrs
Fully cured at 25° C:	7 days
Min over coating time (25° C):	3 Hrs
Max over coating time:	24 Hrs
Thinner:	None
Pot life (20° C):	60 min

### **SURFACE PREPARATION:**

#### **Steel:**

Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Use abrasive blasting to Sa 2 ½. After blasting, clean the surface carefully from the remaining abrasives and dust with vacuum equipments or dry clean air. Recommended profile roughness is 80-100 microns.

#### **Concrete:**

The concrete must be fully cured, e.g. 28 days for normal Portland cement and completely dry with a humidity percentage in the surface below 4%. The concrete must also be controlled to have no capillary water action or subsoil water. Remove dust and loose material. Prepare necessary profile by dry abrasive blasting, wet abrasive blasting, water jet, etc. If chemical treatment is possible, the surface must be treated with acid etching. For this purpose, an approximate 5% (by weight) nitric or phosphorous acid solution is recommended. Prior to etching, the concrete should be saturated and cleaned with fresh water to prevent acid corrosion of the reinforcement bars.

### **Method of application:**

Manacoat –Eph-801 Phenolic should be applied by Airless spray equipment. For small area mixed product should be applied by hand.

### **Storage conditions:**

Store in original sealed containers in a dry and cool warehouse between 5° C and 25° C.