

## Solvent free, high chemical resistant, non-toxic epoxy coating

### PRODUCT

**weberdry epo PW** is a two-part, solvent free, non-toxic, epoxy resin based coating with outstanding mechanical properties. It is specially formulated to have excellent chemical and high abrasion resistance, as well as superb waterproofing features for concrete and metals surfaces.

**weber dry epo PW** is available in two colors white and blue to ease visual checking of achieving two coats application on different colors.

### SCOPE OF USE

**weberdry epo PW** is ideal to be used for

- Lining of potable water and food process structures, like storage areas and piping.
- Lining of chemicals storage tanks of petroleum and petrochemicals products.

Also it is used as a protective coating for water reservoirs, tanks, pipes, marine structures, oilfields, refineries, tunnels, etc.

### ADVANTAGES

- Easy to apply, solvent free, non-toxic
- High abrasion resistance
- Approved for direct contact with potable water
- Polyamine curing
- Doesn't need primer
- Hygienic and anti-fungus growth
- Very good resistance to corrosion and chemicals attack

### CHARACTERISTICS

|  |   |
|--|---|
| Form   | Liquid  |
| Color  | Grey, white, blue other colors are available upon request |
| Solids Content, %                                    | 100   |
| Density (ASTM D 1475) kg/ltr @ 25 °C                 | 1.61 ± 0.02   |
| Pot life (ASTM D 2471) min @ 25 °C                   | 80±3  |
| Touch dry time (ASTM D 2471) hrs @25 °C              | 12±30 min   |
| Overcoat time hrs @25 °C                             | 12-36   |
| Full Cure time (ASTM D 1640) days @25 °C             | 7   |
| Adhesion to concrete (ASTM D 4541) N/mm <sup>2</sup> | > 2.5   |
| Water Absorption (ASTM C 413) %                      | < 0.032   |



### PACKAGING

| Leb       | Syria     | Jordan    | UAE       | Qatar     | Kuwait    | KSA       | Oman      |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 13 Kg kit | 13 Kg kit | 13 Kg kit | 13 Kg kit | 13 Kg kit | 13 Kg kit | 13 Kg kit | 13 Kg kit |
| 24Kg kit  | 24 Kg kit | 24 Kg kit | 24 Kg kit | 24 Kg kit | 24 Kg kit | 24 Kg kit | 24 Kg kit |

|  |                   |
|--|-------------------|
| Shore D Hardness (ASTM D 2240)                   | 85                |
| Tensile Strength (ASTM D 2370) N/mm <sup>2</sup> | 28 ± 1            |
| Flexural Strength N/mm <sup>2</sup>              | 32 ± 1            |
| Abrasion Resistance (ASTM D 4060) (C10 wheels)   | 52 mg/1000 cycles |

### APPLICABLE STANDARD

Water Quality Test BS 6920: Part 2.6 – 2000.  
Tensile strength ASTM D-638:03

### CHEMICAL RESISTANCE

The fully cured weberdry epo PW is resistant to a wide range of chemicals:

Salt water  
Benzene  
Kerosene  
Acetic acid 20%  
Ammonia 20%  
Chlorine  
Citric acid 20%  
Hydrochloric acid (HCl) 33%  
Nitric acid (HNO<sub>3</sub>) 20%  
Lactic acid 20%  
Soda solution (saturated) (Na<sub>2</sub>CO<sub>3</sub>)

Sulphuric acid (H<sub>2</sub>SO<sub>4</sub>) 50%  
Sodium hydroxide 40g/L  
Phosphoric acid (H<sub>3</sub>PO<sub>4</sub>) 20%  
Formic acid 10%  
Alum at 60°C

## INSTRUCTIONS FOR USE

### SUBSTRATE PREPARATION

All surfaces should be clean, dry and free from grease, laitance, oil or dust. Remove all loose material. Moisture content should not exceed 5%. New concrete should be at least 28 days old. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened, in prior to apply weber.dry epo PW.

All steel substrates should be free from dirt, oil and grease and blast-cleaned to Sa 2½ according to EN ISO 12944, part 4.

### PRODUCT PREPARATION

Stir each component separately first for ten seconds. Then, pour the entire contents of the smaller can (hardener) into the base container and the material should be mixed well for at least one minute by mechanical mixer using a slow or medium speed mixing drill.

The epoxy must be well mixed to ensure proper chemical reaction. After mixing, apply immediately.

### PRODUCT APPLICATION

weber.dry epo PW doesn't need primer. Once mixed, the material should be immediately applied using a brush, roller or spray ensuring a continuous coating of uniform thickness. Two coats are recommended to obtain the required protection level, keeping 24 hours in between them.

It is highly recommended to use different color in each coat to control hiding all surfaces in both applications.

**Note:** To obtain high build thickness coating and assure better crack bridging for the coating, it is recommended to use a Glass fiber mesh (of density from 50-100 gr/m<sup>2</sup>) as an intermediate reinforcement layer.

To apply such system, first do the first coat, and place the fiber mesh before the coat get dried.

One day more, apply the second coat over the dry reinforced first coat. The consumption of this system will be more than original system especially in the second coat due to rough surface of fabric which captures more material to be filled.

## COVERAGE

3 to 4 m<sup>2</sup> / kg depending upon substrate condition.

3.10 m<sup>2</sup>/ kg @ 200 micron DFT, per coat

## STORAGE

One year after manufacturing date in its original packing non open and in dry cool area.

## SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water.

If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO<sub>2</sub> foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

## DISCLAIMER

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