

# MonniProof PWT

Solvent Free Epoxy Coating for Potable Water Tank

## Product Description

MonniProof PWT is a two component, 100% solids, epoxy protective coating for concrete and steel. The cured film is resistant to corrosion, abrasion and chemical attack and is listed safe for potable water and incidental food contact.

## Uses

MonniProof PWT is mainly used in internal reservoir waterproof coating for potable water, concrete or metal tanks.

It can also be used as an impervious chemical resistant coating for floors and walls in food factories, dairies, canning and bottling factories and breweries.

## Advantages

- ▶ Approved to use with potable water
- ▶ Eco-friendly - No VOC
- ▶ Waterproof and protective coating with good aesthetic appearance
- ▶ High chemical and abrasion resistance
- ▶ Excellent adhesion to most building materials (concrete, steel) thereby providing maximum corrosion resistance
- ▶ Application friendly

## Instructions for Use

### Surface Preparation

Concrete substrates

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting. Any blowholes, chipping or similar surface imperfections shall be repaired using MonniFinish, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using MonniMort HS, a High strength solvent free epoxy mortar.

New Concrete or cementitious surfaces should be at least 28 days old and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

With Metal Substrates

All metal substrates should be blast cleaned to achieve a minimum of Sa2 ½ standard of cleanliness, an angular amplitude of at least 75 microns for pedestrian traffic and 100 microns for vehicular traffic. The slurry must be applied over the blasted steel surface immediately. If the standard of the surface falls below Sa2 ½ then the steel must be reblasted.

### Priming

Highly porous concrete or concrete containing micro-silica must be treated with MonniPrime EF, a Solvent-free high performance Epoxy Primer.

In that case the primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 4-6 m<sup>2</sup>/L.

The primer should be left to achieve a tack-free condition before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

In case of Metal substrates, they shall be cleaned by sand blasting up to the white metal, and then treated with one coat of MonniPrime EF before the oxidation process occurs.

#### Mixing

MonniProof PWT is supplied in two pre-weighed components. Thoroughly stir the contents of the base can. Pour component B hardener into Component A pail and mix well with a mechanical jiffy-type mixer operated at low speed (200-300rpm). Scrape the side of the pail to ensure the entire product has been properly mixed.

#### Application

Apply MonniProof PWT immediately after mixing by a shorthanded brush, good quality rollers or by airless spray, to the surface ensuring a continuous coating of uniform thickness.

The second can be applied as soon as the first coat has dried (within 12 to 16 hours), depending on the ambient and surface temperatures. If the over coating time has exceeded, the previous coat must be thoroughly abraded to give an adequate mechanical key & solvent wiped.

#### Cleaning

All tools used in the preparation and application of MonniProof PWT must be cleaned with Monneli SOLVENTE 10 before hardening.

### Technical Data

Category	Typical Values
Colour	Gray, white & blue
Appearance	Liquid coating
Mix density at 25°C	1.58 kg/L
VOC	8.0 g/L
Compressive strength (ASTM C579)	80 N/mm <sup>2</sup>
Flexural strength (ASTM C580)	40 N/mm <sup>2</sup>
Tensile strength (ASTM C307)	11 N/mm <sup>2</sup>
Adhesion Strength (ASTM D4541)	>2 N/mm <sup>2</sup>
Pot life at 25°C	30 minutes
Initial cure at 25°C	24 hours
Full Cure at 25°C	7 days
Chemical Resistance	Resistant to dilute acids, alkalis, solvents, oils, petrol, effluents, sea water
Water Regulations Advisory Scheme (WRAS)	Passed

All values are subject to 5-10% tolerance

### Consumption

5m<sup>2</sup>/Liter at 200 micron DFT (Dry Film Thickness)

### Packaging

MonniProof PWT is supplied in 4 Liter or 15 liter cans



## Shelf Life & Storage

Keep the product in dry and sheltered place at temperature between +5°C to +25°C. In these conditions and in closed original containers, the product will have a shelf life of 12 months.

## Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

## Legal disclaimer

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VER.1.2019