

Comtech Proof PU20

Liquid Applied Polyurethane Waterproofing Membrane.

Description:

Comtech Proof PU20 is a single component polyurethane liquid applied waterproof coating, it cures by reaction with atmospheric moisture to form a tough elastomeric waterproof membrane. **Comtech Proof PU20** is designed for use on horizontal and vertical surfaces, it can be use for internal external applications.

Primary uses:

Used as a waterproofing and protective coating for the following structures:

- As waterproof lining for water retaining structures.
- Protection of exposed concrete structures like bridge decks against carbonation and chloride attack.
- As a waterproof coating for roofs and wet areas.
- Backing on marble sand granites to prevent the ingress of moisture.
- As protection for concrete surfaces from carbonation and chloride attack.
- Balconies, terraces, Kitchen, Bathrooms
- Baths (showers), kitchens and difficult access spots.
- Flooring with pedestrian traffic.
- Stairs, stadiums, tribunes, Planter Box, Water channels and reservoirs.
- Foundation and Below Grade Structures, Retaining walls, Concrete Slab, metal profile roofs, asbestos roofs, domes.

Coverage:

Typical properties:

Color	Grey/Red
Density	1.25kg/m ³
Toxicity	Non toxic
Water penetration	7 bars No penetration (2mm DFT)
Elongation	> 500%
Tensile strength	>4 N/mm ²
Adhesion strength	>0.5 N/mm ²
Crack bridging	>1mm
Drying time	6-8 hrs
Full cure	7 days
Application temperature	5 to 45 C ^o
Service temperature	-5 to 80 C ^o

Advantages:

- Good flexibility. Thermal co-efficient of expansion similar to that of concrete.
- Nontoxic, there fore suitable for use in potable water applications.
- Good adhesion to both, porous and non porous surfaces.
- Good mechanical properties.
- Suitable for light pedestrian traffic.
- Excellent durability to long term weathering effect and UV.
- Excellent adhesion to wide range of construction materials.
- Cures to form a permanently flexible resilient barrier over a wide range of temperatures.
- Forms an impervious barrier which resists aggressive soil conditions.

- Irreversible chemical cure does not permit melting or flow of film at elevated ambient temperatures
- Easy to repair

Method of use:

The application temperature should be between 5°C to 45°C.

Application procedures may vary slightly depending upon site conditions.

The general recommended guidelines for the application of the coating system is as follows:

Surface preparation

The surface must be structurally sound and free of oil, grease, dust and other contaminants which will affect the bonding.

Any structural cracks shall be repaired with a suitable repair

mortar. The surface to be treated should be presaturated with water prior to application. However, any standing water shall be removed prior to application.

Application

It is recommended to apply **Comtech Proof PU20** in two coats to provide a minimum thickness of 2mm for heavily trafficked areas and water retaining structures.

Each coat shall be applied @ 1.25kg/m² which will give a dry film thickness of 1mm.

The coating can be applied with a roller or brush or by an airless spray of nozzle size of 3-4mm and a pressure of 6-7bar.

The second coat shall be applied after the first coat dries off completely (6-8 hours @ 25°C, 50%RH).

- For general waterproofing and protection against carbonation and alkali attacks, the coating can be applied in 1mm thickness only.

For higher strength and flexibility, insert a non-woven geotextile membrane whilst the

first coat is still wet on all corner joints, fillets, and pipe penetration joints. Allow the coating to fully cure for 7 days to achieve its full properties.

Curing:

The coating will achieve its full mechanical properties within 7 days at 25°C and 50%RH.

Packaging and storage:

Comtech Proof PU20 is supplied in 25kg Pail (20Ltr); All Comtech products should be stored in a dry shaded area, protected from breakage, deterioration and contamination.

Health and safety:

Comtech Proof PU20 does not classified in the hazardous materials; however it should not be allowed to come into prolonged contact with skin and eyes.

The normal safety precautions (hand gloves & safety goggles) are recommended for handling.

The first aid if some harm happened with eyes in to wash with water.

WARRANTY STATEMENT: The information given here is based on our knowledge, and we believe it to be true and accurate.

We assume no responsibility for the use of these information, recommendations or suggestions.

Users should always refer to the most recent issue of the technical data sheet for the product concerned copies of which will be supplied on request.

