

# DONCRETE-PT

## Epoxy Base, Highly Flexible Waterproof Coating

### PRODUCTION DESCRIPTION

**DONCRETE – PT** is a two component epoxy flexible membrane/barrier coating.

Approved for use with potable (drinking) water, independent testing confirms conformity with the requirements of AS4020.2000&BS6920.

### CURED FILM PERFORMANCE

| Description        | Test Method | Results           |
|--------------------|-------------|-------------------|
| Tensile Strength   | ASTM D412   | 2,100 psi         |
| Elongation @ Break | ASTM D412   | 90%               |
| Permanent Set      | ASTM D412   | <20%              |
| Tear Resistance    | ASTM D1004  | 100 pli           |
| Water Resistance   | ASTM D471   | 2% @ 7 days       |
| MVT @ 20 mils      | ASTM E96    | 0.2 English       |
| Taber Abrasion     | ASTM D4060  | 15mg/1,000 (cs17) |
| Shore A Hardness   | ASTM D2240  | 95                |
| Shore D            | ASTM D2240  | 47                |
| Adhesion           | ASTM D4541  | 650 psi           |
| Flammability       | ASTM D635   | Pass              |

The above tested results are typical values. Individual lots may vary up to 2% from the typical value.

### PRODUCT DATA

| Description             | Test Method   | Results        |
|-------------------------|---------------|----------------|
| Weight/Gal (mixed)      | ASTM D1475    | 9.05 lbs/gal   |
| Weight solids (mixed)   | ASTM C1250    | 90% @ 12 hours |
| Volume Solids (mixed)   | Calculated    | 90%            |
| Viscosity (mixed)       | ASTM D2196    | 11,500 cps     |
| Flash Point             | ASTM D3278    | 250°F          |
| VOC (mixed)             | EPA Method 24 | 2.3 g/L        |
| Shelf Life              |               | 1 year         |
| Pot Life@ 75° F (mixed) |               | 70 minutes     |
| Set Time                |               | 6 hours        |
| Mix Ratio 70718:70719   |               | 2:1 by volume  |
| Fungus Test             | ASTM C836     | No Mold Growth |

The above tested results are typical values. Individual lots may vary up to 2% from the typical value.

### FEATURES/BENEFITS

- Non-flammable and negligible odour.
- Can be applied to damp surfaces.
- Can be safely applied to freshly laid hardened (green) concrete.
- Conforms to use in contact with potable water.
- When applied directly to the substrate the cured membrane will withstand 250 kpa of hydrostatic pressure which is equivalent to a 25 meter head of water.
- When used wet on wet over **DONCRETE – PT Bonding Bridge** the cured membrane will withstand 400kpa of pressure which is equivalent to 40 meter head of water.
- No maximum recoat time provided surface is clean and free from surface contaminants.
- Can be over coated using almost any decorative or industrial finishing paint.
- Safe to use in sensitive locations (e.g. around food or habitable areas) and environmentally sound.
- Prevents rising damp and the formation of efflorescence when used as a single coat barrier sound.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, stone and timber.
- Easy clean-up using water.

### TYPICAL APPLICATIONS

**DONCRETE-PT** two-component high solid epoxy flexible coating systems are suitable and recommended for :

- The waterproofing of pedestrian and vehicular traffic areas such as roof tops, balconies and car parks
- The protection and waterproofing of stadium terracing
- The waterproofing of containment structures such as reservoirs and bonded material storage areas
- The waterproofing of bridge decks prior to asphalt resurfacing The waterproofing of tunnels, channels and dams
- Protection and waterproofing of Terrace Garden area and Planter Boxes.

# DONCRETE-PT

## Epoxy Base, Highly Flexible Waterproof Coating

### BASIC APPLICATION INSTRUCTIONS

#### Surface Preparation

All surfaces to be treated must be structurally sound; and existing coatings, adhesives efflorescence should be removed to hydrostatic pressure. Surfaces must be cleaned free of dirt, grease, oil, or other surface contaminants.

Holes, non-structural cracks or other surface deformities should be filled with an Concrete Bond-108 epoxy based bonding agent mixed with Silica sand (1:4) or use **CONCRETE BOND-108, GEL**.

#### Installation

Each component should be individually mixed to from a homogenous component.

Thoroughly mix the two components in the ratio of 1:1 by volume until a homogeneous blend is obtained. Only mix as much as may be used within the pot life and avoid excessive aeration during mixing.

When the product is to be applied to dry concrete it is advisable to wet the surface with a fine mist of water before application and allow to just surface dry on R.C.C. slab spread the material using a squeegee or stiff nylon broom to achieve coverage and finish using a long nap roller.

Wall-Apply the product by roller or spray taking care to achieve required coverage.

Care must be taken to work the material into the surface to fill voids and avoid pin holing. A minimum of two coats is recommended and care should be taken to ensure uniformity of material and the required coverage is maintained. When finishing it is necessary to lay the material onto the surface and lightly finish to achieve the required dry film thickness per coat.

The coverage rate for all surfaces should be a total of 2.00 square meters per kg for two coats. Two coats apply for the best water proofing.

Allow to cure for 24 hour before applying adhesives, mortars, leveling compounds, decorative coating or other surface treatments. Care is necessary to ensure

### PACKING

1Kg., 5Kg.,240Kg. pack

### SAFETY PRECAUTIONS

**DONCRETE-PT** Part A and Part B are hazardous goods and may cause sensitization by skin contact. They are harmful by inhalation, in contact with skin and if swallowed. Keep containers tightly closed in a well ventilated place. Avoid contact with skin and eyes. It is strongly recommended that protective clothing is worn at all times during use of epoxy material to prevent contact with skin.

### ADDITIONAL INFORMATION IS LISTED IN THE MATERIAL SAFETY DATA SHEET.

### THINNING AND CLEAN UP

The first coat should be thinned with water, as required depending on the porosity of the surface to be coated (up to 20% for dense surface to 5% for more porous surfaces) to ensure optimum penetration. Thinning of the second coat should be avoided since this increases the difficulty in achieving the required dry film thickness. Wash all equipment in water or water/detergent immediately on completion.

### TECHNICAL PERFORMANCE DATA

|                    |   |
|--------------------|---|
| Finish             | Semi-gloss going to matt with aging   |
| Volume Solids      | 90%   |
| Mixing ratio       | 2:1 (Part A: Part B) by volume  |
| Coverage           | Coverage must be applied at a rate of 2.00 square meters per kg two coat to achieve an effective waterproofing. |
| Wet-Film Thickness | 1000 micron   |
| Recoat time        | 4 hour @ 25°C & 50% R.H.  |
| Full Cure          | 7 days @ 25°C & 50% R.H.  |
| Pot life           | 2 hours @ 25°C<br>1 hour @ 35°C   |

The recommended wet film thickness specified produces a nominal dry film thickness of 500 micrometers per coat or 1000 micrometers for two coats. The apparent dry film thickness will reduce depending on the porosity of the substrate, however the product absorbed by the substrate from of the waterproofing function.

# DONCRETE-PT

Epoxy Base, Highly Flexible Waterproof Coating

the waterproofing membrane coating is not damaged in any way during subsequent treatments.

It is recommended that the final coating applied to floor surface treatments. Care is necessary to ensure the waterproofing membrane coating is not damaged in any way during subsequent treatments.

It is recommended that the final coating applied to floor surfaces should be allowed to cure for at least 3 days before further treatment to minimize the risks of mechanical damage.



TECHNICAL COLLABORATION WITH



**Don Building Chemicals (India) Pvt. Ltd.**  
B-111-112, Santosh Complex, Vibhuti Khand,  
Gomti Nagar, Lucknow- 226010  
E-mail: [donbuildingchemicals@yahoo.com](mailto:donbuildingchemicals@yahoo.com)  
Website: [www.donbuildingchemical.com](http://www.donbuildingchemical.com)



**Doncrete USA Inc.**  
Governors Hwy 292, PA-8, Oil City  
PA-United States- 24601  
E-mail: [help@doncreteusa.com](mailto:help@doncreteusa.com)  
Website: [www.doncreteusa.com](http://www.doncreteusa.com)

Epoxy Base, Highly Flexible Waterproof Coating

DONCRETE - PT