



DURATHANE 100

Elastomeric Polyurethane based membrane coating

Description:

DURATHANE 100 is a 100% solid containing solvent less rapid curing heavy duty polyurethane based **two pack system** of elastomer/waterproof membrane coating to provide exceptional protection for surfaces subject to movement or to cracking in severe chemical and physical environment.

Uses:

DURATHANE 100 is designed for crack bridging, strong adhesion and chemical resistance. It is extensively used in steel and concrete structures, containment areas like tank, truck, piping and processing equipments, handling fresh and brine water and liquid solutions of industrial waste, salts, detergents, many acids, alkalis and other chemicals. **DURATHANE 100** provides very high degree of protection against corrosive moisture, fumes, chlorine, carbon-di-oxide, hydrogen sulphide and methane gases.

Features:

- Rapid cure
- 100% solid – no VOC emissions – DFT = WFT
- High build film thickness in single application / pass
- Aromatic, elastomeric, plural component, chemical resistant and weather resistant
- Absolute impermeability, excellent adhesion, elongation and flexibility
- Fast setting / rapid cure – however gel time may be adjusted to higher gel times
- Usual applied with a DFT of 1 mm to 2 mm
- Excellent resistance to marine environment / salt spray
- Excellent tear and abrasion resistance
- High performance protective surface lining / coating membrane

Application:

Surface Preparation:

- (a) For steel :** Round off sharp edges and rough welds. Burrs and weld spatter should be completely removed. Surfaces must be clean, dry and free of all dirt, chalk, grease, oils, salts and deleterious materials before application is performed.
- (b) For concrete:** Concrete shall be fully cured prior to commencement of any surface preparation or coating operations. Any large fins or protrusions, which are likely to cause film discontinuities, shall be removed by chipping or power grinding. Surface shall be blast cleaned to remove surface efflorescence and laitance, etc.

The blast nozzle will be kept at sufficient distance and moved quickly (sweep blasting) to avoid over blast and excessive exposure of aggregates. The blasted surface shall have the roughness of medium grade sandpaper. Any large size voids or concrete defects will be either flooded with the elastomeric polyurethane while spraying or previously filled manually with appropriate grout material.

Before application of the product, priming with **DURATHANE P** is highly recommended. **DURATHANE 100** should be applied when the ambient temperature is below 5°C (40°F) and the surface of the concrete is wet (surface moisture should be less than 2 to 3% for the ideal condition of application – moisture meter may be used for such purpose). Apply in even coat by spray/brush.

Mixing:

All equipments should be cleaned and flushed with thinner. Do not vary mixing proportions. Do not allow the catalysed material to remain in equipment after use.

Technical Data:

Colour	: Standard grey and black when mixed both the packs
Volume of solids	: 100%
Mixing Ratio	: Pack A : Pack B = 3: 1 by volume
Abrasion resistance	: 0.05 gm (max)
Adhesion strength (Kg/cm ²)	: 25 (min)
Impact resistance	: No cracking / delamination
Resistance temperature	: 0°C to 65°C
Hardness (shore D)	: 55 (min)
Elongation	: 56%
Tensile strength (Kg/cm ²)	: 170 (min)
Moisture vapours permeability	: 0.25 gm per 24 hours per M ³ .
Gel time	: 5 – 6 minutes but can be varied as per requirements
Cure time at 30°C	: 12 – 18 hours
Full cure at 30°C	: 5 – 7 days
Accelerated weathering	: Passes 2000 hours
Coverage	: 2 – 6 m ² per kg of mixed component depending on DFT
Finish	: Matt
Shelf Life	: 12 months in unopened packing
Packing	: 25 Kg & 200 Kg

IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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