



INTRODUCTION:

POWERDEK 300 is a single component moisture-curing liquid applied polyurethane waterproofing membrane system with an advanced polymer technology. Unique properties of **POWERDEK 300** makes it unique product for new and old civil structure. It is ideal product for water and damp proofing of bridge deck, terrace, roofs, sunken slab, and basement etc. where structural movement or future crack is expected.

Unique Features:

- Superior flexibility
- Bridges substrate crack up to 3mm
- Long term crack resistance
- Superior freeze/thaw resistance
- Self curing
- Very low shrinkage
- Non-toxic
- Easy application, single component, hence no mixing problems.

USES:

- Exposed roofing, decks and podiums
- Car parks and ramps
- Compactor room floors, plant rooms and wash rooms
- Sport stadium service-ways, plats and vomitories

To waterproof and damp-proof concrete, cement rendering, brickwork and blockwork. To protect concrete against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis.

This also includes: Waterproofing of concrete slabs, balconies, water tanks, sealing internal basement and cellar walls against dampness, protection of concrete structures in marine environments, external tanking of substructure concrete such as basement walls in new buildings.

ADVANTAGES:





POWERDEK™ 300

Single Component Deck Waterproofing Coating with UV Stability

SIMPLE PACKAGE: Material is pre-packaged in a convenient and easy to handle size. Requires no site mixing.

EASY TO USE: Brush or spray applied, normally in two coats.

ADHESIVE: Excellent adhesion to steel and sound prepared concrete substrates.

QUICK DRYING: Typically touch dry in 1 hours (depending on humidity).

SAFE: Non-toxic when cured, nonhazardous, solvent and plasticizer free.

IMPERMEABLE: Very high resistance to water permeability and diffusion to carbon dioxide gas.

COST EFFECT: Economical.

OVERCOATING: Easily overcoated with other specialist membranes in the Multichem range to provide further protection and aesthetic quality.

TECHNICAL DATA:

PROPERTIES	RESULTS
Appearance	Paste
Open Time	60 minutes @ 25 °C
Packaging	20 Kg bucket
Specific Density	1.3-1.35
Tensile Strength	15 N/mm ²
Tensile Adhesion Strength	2 N/ mm ² (Minimum requirement 0.5 N/mm ² as per EN14891)
Coverage	1.5-2.5 Kg/m ²
Crack Bridging Capacity	3 mm
Waterproofing Permeability, IS 2645-1975	Nil
Colour	Gray
Shore A Hardness, ASTM D2240	40
Elongation,%	>250%
Shelf Life	1 year from date of manufacturing

APPLICATION DATA:

PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed and steel cleaned to bright metal preferably using wet grit or water blasting techniques or equivalent approved methods. Surface should be leveled with **Multichem** leveling compound. The strength of the concrete sub-base should be a minimum of 20N/mm².



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POWERDEK 300/2018/R0-2018



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PRIMING

The prepared substrate concrete should be thoroughly dry. Apply **MultiThane Primer 21** or **AquaBlock Primer** as per technical requirement. Allow primer to dry for 12-24 hours before topcoat.

PLACING

POWERDEK 300 can be applied using spray techniques, brush or roller. While using brush application care must be taken to ensure that air is not entrapped onto the surface. Apply the first coat, approximately 0.8mm thick, onto the prepared substrate. To ensure total protection, a second coat should be applied in the same way, after waiting approximately 1 hour depending on temperature (when the first coat is stable but not fully set). After application the surface need to be protected from UV rays and light traffic movement till coating is fully cured. Contact Technical team for further details.

CLEANING

All tools should be cleaned with suitable cleaner immediately after use.

STORAGE:

Store in dry, frost-free conditions at moderate temperature not **greater** than 25 °C.

IMPORTANT POINTS:

1. Apply only to clean, sound substrates. Concrete should be primed with suitable primer before top coats and free of water backpressure.
2. Care should be taken when curing in hot, sunny or windy conditions.
3. Discard **POWERDEK 300** packages which has been subjected to freezing temperatures.
4. **POWERDEK 300** is not a decorative finish and may temporarily discolours until uniformly weathered. It may, however, be overcoated with Multichem membranes to produce a coloured finish.





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- When treating structures in a tidal zone, the **POWERDEK 300** must be allowed to cure for a minimum of 24 hours or advised by Multichem Technical Team before being immersed. Protect from abrasion or aggressive tidal flow if necessary.

PACKAGING:

Pack Size: 5, 20 kg

SAFETY DATA:

- Irritating to eyes, respiratory systems and skin.
- Risk of serious damage to eyes.
- Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- After contact with skin, wash immediately with plenty of clean water.
- Wear suitable protective clothing, gloves and eye/face protection.

Please consult our technical department for further information. The product, POWERDEK 300 provided here is for not for 'Do-it-Yourself', (DIY).

WARRANTY

Multichem warrants POWERDEK 300 to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of POWERDEK 300.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of POWERDEK 300.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

