

DECK POLYUREA FFP

Ultra-high Tough Liquid Applied Hybrid Polyurea Membrane

INTRODUCTION

Deck Polyurea FFP is liquid applied polyurea based waterproofing system. The unique proprietary chemistry of Deck Polyurea FFP makes the product suitable for brush/ roller application unlike widely known polyurea coating which require special dispensing machine for application. Fully cured Deck Polyurea FFP membrane has excellent stability against water, acid, base and common solvents. Optimized mechanical properties and crack bridging ability of the product ensures durable and resilient waterproofing membrane.

KEY FEATURES

- Low volatile organic content
- Fast curing
- Easy to apply
- Excellent mechanical properties
- Good crack bridging capability
- Excellent adhesion with concrete, masonry and natural stone
- Excellent flexibility even under low temperature
- Anti root penetration property

TECHNICAL DATA

Mix density	1.2	g/ml
Mixing ratio	Part A	3
	Part B	1
Pot life at 25°C	15	min
Tack free time	2	hours
Full cure time	7	days
Tensile strength	>7	N/mm ²
Elongation	>500	%
Adhesion strength	>3.0	N/mm ²
Crack bridging ability	>5	mm

APPLICATION PROCEDURE

Surface Preparation

New concrete surfaces should be fully cured. Make sure the moisture content in the concrete is less than 5%. Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants. Grind the concrete surface using hand held grinder or concrete polishing machine (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).

Repair voids, cracks, broken edge and honey-combs properly using epoxy based concrete repair products (Deck Repair EP) or fast curing cementitious repair product (Deck CRS or Deck Micro Concrete) Allow the patched area to cure before applying the membrane. Avoid any sharp change in surface profile. For example joint edge between horizontal and vertical surface must be smoothed using appropriate mortar. All metal surfaces should be made clean of paint, oils, rust and other contaminants.

Apply Deck Prime EP on the prepared surface as directed in its technical datasheet and allow it to cure for 12 hours before further application.

Waterproof repair

All construction joints, cracks, horizontal-vertical junction edge must be repair using Deck Fleece 120 reinforced Deck Polyurea FFP membrane. Open the Deck Polyurea FFP Part A and B containers and stir Part B gently for 2-3 minutes. Take a clean and dry container of suitable size. Add Part A and Part B proportionally as given the technical data table and add 100 grams of Deck Thinner for 1000 grams of Deck Polyurea FFP mix (10% Deck Thinner). Stir it well using a hand held low RPM (300-400 RPM) stirrer for 1-2 minute. Apply the mix as base coat on well primed surface using suitable brush or roller. Allow it to cure for 3 to 4 hours.

Apply fleece coat of Deck Polyurea FFP over the base coat. First thin down the Deck Polyurea FFP mix with 15-20 % of Deck Thinner. Soak the pre-cut pieces of Deck Fleece completely with the mix and apply on the Deck Polyurea FFP base coat. Using brush/ roller of suitable size squeeze out air pockets (if any) left between the fleece and base coat surface. Make sure

the fleece is well attached to the surface with no loose or unsupported membrane. Use additional Deck Polyurea FFP mix to properly saturate the fleece surface if required. Allow the membrane to cure overnight.

Waterproof coating

Apply three coats of Deck Polyurea FFP over well primed surface using brush/ roller. Make sure brush/ roller movement for any two consecutive coats is perpendicular to each other. Allow the previous coat to cure for 3-4 hours before applying the next coat.

Protection

Apply the top coat of Deck Prime EP and sprinkle quartz aggregate of particle size 1-2 mm to enhance bonding with subsequent cementitious protective layer.

For protection it is recommended to sandwich the Deck Polyurea FFP waterproofing membrane layer with a screed layer of 30-40 mm.

Coverage

Approx 1.2 Kg per sq.m in three coats depending upon the surface roughness.

2.5 Kg per sq.m with Deck Fleece 120 reinforced membrane.

PACKAGING

Deck Polyurea FFP Part A-3 Kg can and 0.75 Kg can

Deck Polyurea FFP Part B-1 Kg can and 0.25 Kg can

STORAGE

Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight for several days. Keep in cool, dry and under shed. Deck Polyurea FFP performs well for at least 6months from the date of manufacture if stored following aforesaid method.

HEALTH AND SAFETY

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not swallow, avoid contact with food or cooking utensils and keep away from children's reach. If splashed on to cloth or any other fabric, wash immediately otherwise it may leave permanent stain.

PRODUCT DISCLAIMER

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental conditions while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt about application performance.