

# Dr. Fixit TankPro W



## POLYURETHANE COATING FOR WATERPROOFING AND PROTECTION OF WATER TANKS

### Description

Dr. Fixit TankPro W is a two-component, solvent-free, thixotropic coating, based on high quality elastomeric polyurethane resins. After polymerization, it produces a strong, elastic, hydrophobic membrane suitable for waterproofing and protection of water tanks.

### Areas of Application

Waterproofing and protection of:

- Water tanks made of reinforced cement concrete (RCC).
- Prefabricated concrete tanks.

### Features and Benefits

- Excellent adhesion on RCC surface.
- Being solvent-less, it can easily be applied in closed spaces.
- Extremely hydrophobic and hydrolysis resistant.
- Certified for potable water tanks, in accordance with the US FDA 175.300 requirements.
- Single coating for Waterproofing and Protection for water tanks giving faster turaround time.

### Method of Application

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#### 1 GENERAL SURFACE PREPARATION:

- Surface needs to be made clean, dry and sound, free of any contamination by wire brushing, which may affect the adhesion of the membrane to the substrate. Substrate concrete compressive strength should be cured for 28 days and achieve minimum 20 MPa compressive strength. Wash the concrete substrate with water pressure jet to remove all loose particles and dust.
- Ensure the substrate has properly cured and the concrete is profile free, no ridges or troughs. All contaminants should be removed by mechanical vacuum assisted preparation equipment such as scabbling/shot blasting/diamond grinding to achieve a light abrasive blast to achieve preferred surface profile of CSP 4 or CSP 5.
- If concrete surface found to be defective with pinholes/bug roles/honeycombs etc., it must be filled/ repaired using scratch coat prepare by mixing Dr. Fixit Superseal P200 WB and Dr. Fixit Superseal P100 aggregates in 1:1 ratio. Apply the scratch coat by using suitable spatula/squeeze to get level surface for the upcoming primer.

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#### 2 REPAIR OF CRACKS AND CONSTRUCTION JOINTS:

- Existing surface cracks which are more than 1 mm and construction joints should be cut open in square or V-groove manner up to 10 mm width by using mechanical cutter.
- Clean the groove with air blower to remove dust, dirt etc. primmed the groove with Dr. Fixit Pidiprime A and allow it to dry for 2-3 hours.
- Slide the Feviseal PU/Hybrid Sealant into the applicator gun; extrude the sealant into the cracks ensuring that no air is trapped inside.
- The treated cracks require minimum 6 hours to set and allowed to cure completely for a day. (Self-curing according to the room temperature).

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#### 3 CORNER TREATMENT - WALL TO FLOOR AND WALL TO WALL JOINT:

- Moisten the surface with water & apply a bonding coat of Dr. Fixit Pidicrete URP and cement (1:1) by volume on cleaned RCC surface. Place angle fillet / coving by using Polymer modified mortar prepare with 1 kg Dr. Fixit Pidicrete URP, 5 kg fresh cement, and 15 kg graded quartz sand. (i.e., in the ratio of 1:5:15) on all along the joint RCC surface (slab and wall junction) and smooth finish.
- Alternatively, V" grooves shall be cut along the wall & slab joints or construction joints for 10 x 10 mm using a hand cutter.
- After cleaning the groove thoroughly, apply one coat of Dr. Fixit Pidiprime A primer and fill the gap with Feviseal



PU/Hybrid sealant is applied (Air curing for 24 to 72 hours according to the room temperature) in the groove.

- After curing of sealant, apply one coat of Superseal P200 WB primer in a width of 120mm, let it dry and fix the Dr. Fixit Corner Joint tape along the wall-slab joints using Dr. Fixit TankPro W

#### 4 PRIMING:

- The entire internal floor & wall concrete surfaces shall be sundried / thumb dry (moisture content <5%), all loose scaling, dust and other deposits shall be blown off with a compressor.
- Dr. Fixit Superseal P200 WB shall be mixed well and applied using roller/brush over the prepared RCC surface in one coat with coverage of 100 gm/m<sup>2</sup>.
- Self-curing time of 3-12 hours depends upon the climatic conditions.

#### 5 APPLICATION:

- While mixing, both the components A & B shall be poured into a fresh container and mixed well with slow speed stirrer. Use slow speed (100-300 RPM) paddle mixer for mixing the components.
- Both the components of Dr. Fixit TankPro W should be stirred well before using. Mix the individual material of Part A and Part B. Pour part A into part B and mix properly for 2-3 minutes to get a homogenous solution. Apply the mixed solution on the primed surface by using brush or roller to achieve the desired thickness.
- Apply Dr. Fixit TankPro W when the primer is tack free or before 24 hours from application of primer. In case if it exceeds 24 hours, then a thin coat of primer is recommended.
- Apply with roller in two coats with consumption of 1.4 kg/m<sup>2</sup>. Since the coating is thixotropic in nature, any pinholes should be sealed in the first coat. Hence, the first coat coverage is suggested to be maintained at 0.5Kg/m<sup>2</sup> and remaining 0.9Kg/m<sup>2</sup> in the second coat.
- Apply second coat of Dr. Fixit TankPro W in perpendicular direction to first coat between 6 to 24 hr of completion of first coat. In case of it exceed 24 hrs it is suggested to apply fresh coat of primer.
- Any pinholes visible in the 1st coat shall be touched up appropriately with Feviseal PU or Hybrid sealant/Scratch coat (as suggested above).
- Let the coating cure for 5 days for full cure.

#### Note:

- For best results, the temperature during application and cure should be between 10° C and 35° C. Low temperatures retard cure while high temperature accelerates curing.
- Pot life will shorten during extreme summer and application needs to be rescheduled in the cooler evenings.
- Use of primer is mandatory to seal the pores and avoid pinholes in the coating surface.
- Any pinholes visible after the 1<sup>st</sup> coat shall be touch up appropriately with Feviseal PU or Hybrid sealant/Epoxy putty.

#### Precautions & Limitations

- Although it does not contain volatile substances, it is highly recommended that closed spaces be well ventilated to recycle the air in which people will work.
- Careful supervision during application is needed, particularly in ensuring proper consumption of material to achieve the desired average thickness & also the curing of concrete.
- Dr. Fixit TankPro W is not designed to be left exposed to UV.
- Care should be taken, that should not be ingress of water into material from time of mixing to initial drying time of finished product for minimum 7 hours.
- Ensure the moisture should be less than 5% before application of primer and main coat.

PROPERTY	TEST METHOD	OBSERVED VALUE
Mix Ratio(Hardener Part A: Resin Part B) by weight	Internal	1:5
Physical Form	Internal	White Thixotropic liquid
Viscosity of mix (Brookfield)	ASTM D2196-86 @25 °C	18000 cP
Specific Gravity of mix	ASTM D1475 @25 °C	1.2-1.3
Solid Content	Internal	100%
Pot Life	@25°C	30 min
Recoat time	--	6-24hrs
Elongation	ASTM D412	100%
Tensile Strength	ASTM D412	12 Mpa
Hydrostatic Pressure Resistance (Positive)	EN 12390	Passes 5 bar
Hydrostatic Pressure Resistance (Negative)	ASTM D7088	Passes 5bar
Shore A Hardness	ASTM D2240	80
Adhesion to concrete	ASTM D7234	2Mpa (concrete failure)
Water Absorption	ASTM D570	0.15 %
Crack Bridging	ASTM C1305	Pass (10 cycles)

### Packaging

9 Kg (comp A: 7.5 Kg, comp B: 1.5 Kg)

### Coverage

Minimum total consumption: 1.4 kg/m<sup>2</sup>.

### Shelf Life & Storage

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25°C. Once opened, use as soon as possible.

### Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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