organiX BUILDING SYSTEM

DryTex-VASTAF PW9400-E

Waterproofing System For Potable Water Reservoirs

DryTex VASTAF PW9400-E is a flexible food grade epoxy resinous waterproofing designed for waterproofing and protection of steel and concrete structured drinking water reservoirs and tanks. DRYTEX VASTAF PW400-E is a internal waterproofing lining of potable water reservoir and wastewater tanks, secondary containment structures where superior flexibility. long lasting and resistance to fungus and chemicals is required (waste water treatment facilities). DRYTEX VASTAF PW400 -E is a modified epoxy resin based solvent free product with high elastic properties.



Features

- UV resistant and High Temperature water resistance
- Crack resistant and Superior Flexibility
- Superior freeze/thaw resistance/High chemical resistance
- Excellent resistance to salt, acids, alkalis and other chemicals
- Effective protection against acid rain
- Self-curing, Non-toxic and breathable
- Continuous water immersion possible
- Superior negative/positive waterproofing
- Good for potable water and confirmed for use in drinking water
- Bridges substrate crack up to 3 mm

Physical Properties	Specification	Standard
Solid content	100 %	ISO 3233
Density (Mix)	1.4kg/l	
Consistency of mix	Fluid , applied by brush or roller	
Application temperature	5°C to 50°C	
Thickness	> 500 micron	
Shore A Hardness	88	ASTM D-2240)
Service Temperature	-40°C to 80°C	
Pot life of wet mix	60 min @ 35 °C	
Min. recoat time	2 hrs @20 °C	
Elongation	450 %	(ASTM D-412-98-a)
Tensile Strength	≥ 8 N /mm²	(ASTM D-412-98-a)
Compressive Strength	28	(ASTM C 109-92)
Permeance	0.08 perms	(ASTM E 96)
Water Impermeability	Nil	(ASTM E 96)
Adhesion to concrete	≥ 2 N /mm²	(ASTM C -297 Mod.)
Crack Bridging	3 mm	ASTM C1305
Flammability	Passed	(ASTME-108)
Potable Water	Passed	(NSF/ANSI std 61)
Toxicity	Non Toxic	BS 6920 :Part1:2000/SPAN
VOC	0%	(0 g/L)
Fungus Resistance	Pass	(No growth)
Chemical Resistance	Pass	Excellent resistance

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Applications for DryTex VASTAF 9400-E

- Metal and concrete structures in contact with potable water
- Corrosion protective coating for clarifiers, tanks, internal and external pipework, valves, fittings, water boxes, manholes, cooling tower pans operating in contact with potable water
- Corrosion protection of submersible pumps
- Concrete repair mortar (combined with DryTex VASTAF 9400-E) for potable water tanks and pipework

Application Procedure

Preparation-Concrete.Structures -

The proper surface preparation is essential for a successful waterproofing .Remove all deteriorated and loose concrete, form release agents, oil, grease, laitance, dust, dirt and efflorescence by dry or wet sandblast, shot blast, or high-pressure water . Repair deeper areas using OBS recommended material.

All cracks of more than 2 mm to be treated with crack filling mortars and sealants and reinforcing mat. Pre-fill any open cracks larger than 2 mm with Organix sealflex or any other material recommended by OBS . All penetrations to be treated with FLEXIK reinforcing fabric /mesh (Consult OBS technical support to select the suitable reinforcement material according to the substrate).

Steel Surfaces

All surfaces should be grit blasted to obtain smooth and bright metal surfaces . The coating work should be scheduled accordingly that newly cleaned steel is coated as possible before the formation of rust or scale

Priming

Use of primer (DryPrime Bond) or solvent free epoxy primer is preferred for optimum adhesion to any surfaces

Mixing

Mix in a clean container by slowly adding component Part B to the component Part A and mixing with low speed drill and mixing paddle. Gradually add Part B to the mixing liquid while the drill is running. Pot life is 60 min @ 35 °C

Application

Can be applied conventionally by brush ,roller or spray equipment.. It is recommended to apply first coat by brush to obtain optimum adhesion. DRYTEX VASTAF PW9400-E Waterproofing Membrane has excellent high build properties, and can be built up to 1000 micron thickness . But the minimum thickness to meet the product specification is minimum 400 micron .Multiple coats preferred from a curing point of view and dependant on weather conditions at the time of application, it is more pertinent to apply and build up the membrane in two or more coats, to allow quicker cure in each stage. The thicker the application the longer the cure.

Coverage

1 Litre covers 2 sq.m @ 500 micron thickness (theoretical to meet product specification , may vary depending upon the project requirements and specification)

Packing

20 L Pack

Storage and Transportation DRYTEX VASTAF PW9400_e , when stored on pallets in dry, cool area from moisture and direct sunlight, has a shelf life of 12 months. The liquid Component B must not freeze.

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