DryTex WAFShield IB644

Façade Safe Coating – Weather & Fire Protection

WAFSHIELD.IB644 is a fluid applied, elastomeric façade protective coating formulated with polymer resin blend which forms a seamless membrane that expands and contracts. WAFSHIELD.IB644 specifically formulated and designed to apply over all types of substrates from concrete, precast concrete, various type of concrete blocks, cement board, stones, metal, plastering and wood as a waterproofing, air, moisture, fire barrier and UV resistant protection. It will not crack, crumble, or peel despite exposure to severe weather or total joint movement and retains its elasticity at very low temperatures and in extreme of heat, protecting from water and aggressive atmospheric chemicals.



Features

- Superior freeze/thaw resistance
- Excellent resistance to salt, acids, alkalis and other chemicals
- Effective protection against acid rain
- Resistant to carbon dioxide and chloride ion diffusion
- Non Toxic , Suitable for interior and exterior applications .
- Superior adhesion to all types of substrates
- Low VOC and environmentally compliant
- Fire classified (ASTM E 84 Class 1 & EN 13501-1 Class A)

Field of Application

- Façade fire protection, watertight, vapour barrier and wind tight
- Façade vapor barrier for brick, stone, blockwork, plaster and concrete
- Protection to concrete surfaces from carbonation and chloride attack
- Superstructure protection from extreme weather.

Technical Specification

PROPERTIES	VALUES	TEST STANDARDS
Color	Silver grey	
Density (Mix)	1,600 to 1,800(Kg/m³)	
Application temperature	5°C to 50°C	
Shore A Hardness	88	(ASTM D-2240)
Service Temperature	-20°C to 80°C	
Pot life of wet mix	60 min @ 35 °C	
Min. recoat time	2 hrs @20 °C	
Elongation	≥ 100 %	(ASTM D-412-98-a)
Tensile Strength	≥ 8 N /mm²	(ASTM D-412-98-a)
Compressive Strength	42	(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.)
Flammability	Passed	(ASTM 84 / EN13501-1)
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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Surface.Preperation

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 and voids must be treated using appropriate organix suggested material . Pre-fill any open cracks larger than 2 mm with material recommended by Organix.

Mixing :- Mix in a clean container by slowly adding the powder component to the clean water and mixing with low speed drill and mixing paddle. Gradually add the powder 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. WAFShield Waterproofing Membrane has excellent high build properties, and can be built up to 2000 micron wet in one application. However 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 : mixed membrane applied wet at a rate of 0.5 kg/square metre When bridging wider cracks, bed reinforcing mat into the first layer, allowing for over coating once cured. It is ideal for reinforcing cracks in concrete floors prior to tiling. For all round protection and durability, the final coat in the system should be applied at a rate of 0.5kg/ square metre giving an optimum dry film thickness. The service life of the membrane is a direct correlation to final dry film thickness. A built in latent curing mechanism activated by water loss happens in 3 stages. Firstly there is the initial evaporation of the majority of water in the system, followed by the second stage where the surface skins over and cures. The third stage (which takes a minimum of 2-6 days) is to complete cure and gain of cohesive strength. The application of the second coat can proceed after stage two. This is a two stage system, inclusive of the necessary bond breaker requirements being addressed.

Limitations

Do not apply WAFShield when the temperature is expected to be below 4°C within 48 hours, or when rain is imminent.

Packing :10, 20 Kg and 25 Kg bags

Storage and Packing : WAFShield , when stored on pallets in dry, cool area from moisture and direct sunlight, has a shelf life of 12 months.

Storage: Store materials between 10°-50°C with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures in direct sunlight. Shelf life under normal conditions in closed container will be 12 months.

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Organix Building System LLC
Dubai – United Arab Emirates
Email : info@organixbs.com
www.organixbs.com