DryTex WETSHIELD 705

Highly Water Repellent Hydrostatic Moisture and Wet Proof

WETSHIELD 705 is a polymer modified waterproof cementitious system, designed for positive and negative waterproofing or protection of concrete structures in new construction and restoration. It is suitable for, containment structures, concrete slabs, bathrooms, retain walls, façade, pool and supplied in ready to use powder bags and to be mixed with clean water at site. WETSHIELD 705 is a blend of Portland cement, well-graded sands, and active chemicals, when applied to concrete cause a chemical reaction in the pores and capillarity of the substrate. This reaction generates a non soluble fibrous crystalline throughout the concrete to which applied, avoiding the penetration of water from any direction.



FEATURES

- Superior freeze/thaw resistance
- Breathable and weather resistant coating
- Best defense against moisture infiltration for the building envelope
- Excellent resistance to salt, acids, alkalis and other chemicals
- Effective protection against acid rain ,Resistant to carbon dioxide and chloride ion diffusion
- Superior negative/positive waterproofing
- Fire rated Class A (ASTM E 84 and EN13501-1)
- Non Toxic, Good for potable water and Suitable for interior and exterior applications. Superior adhesion to all types of substrates

FIELD OF APPLICATION

- Waterproofing and protection for substructure, super structure and roof
- Waterproofing lining for water retaining structures
- Façade vapor barrier for brick, stone, blockwork, plaster and concrete
- Protection to concrete surfaces from carbonation and chloride attack
- Wet area, swimming pool, tunnel, retain walls, and water tank

CONFIRMATION

DRYBITUMEX R650 confirms to ASTM D1227, Type III, Class I and ASTM D3747, Type I standards and British standard BS3416 Type 1, BS 3690:Part 2 19189 "protection of buildings against water, vapor and air and damp proofing.

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	≥ 80 %	(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)

engineered to perform

Adhesion to concrete	2 N /mm²	(ASTM C -297 Mod.)
Crack Bridging	3 mm	
Root Resistance	No puncture	(EMPA .Lupinus albus)
Flammability	Passed	ASTM E84 , EN13501-1
Potable Water	Passed	(NSF/ANSI std 61)
Toxicity	Non Toxic	BS 6920 :Part1:2000/SPAN
VOC	0%	CDPH /USEPA 24
Fungus Resistance	Pass	(No growth)
Chemical Resistance	Pass	Excellent resistance

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 must be treated using WETSHIELD 705 and reinforcing mat. Pre-fill any open cracks larger than 2 mm with WETSHIELD 705 or any other material recommended by OBS Embed a strip of reinforcing mat into the wet WETSHIELD 705 and apply a second coat to fully cover the reinforcing mat (Consult OBS technical support to select the suitable reinforcement material according to the substrate).

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. WETSHIELD 705 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 minimum 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 minimum 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. For heavy duty requirements , the application rate can be 1kg/square metre for one coat and apply minimum 2 coats .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 WETSHIELD 705 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 Transportation WETSHIELD 705, when stored on pallets in dry, cool area from moisture and direct sunlight, has a shelf life of 12 months.

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