DryTex **CEM**

Polymer modified Cementitious Waterproofing

DRYTEX CEM is a polymer modified flexible elastomeric cementitious waterproofing and protection system, designed for positive and negative waterproofing or protection of concrete structures in new construction and restoration. It is suitable for secondary containment structures ,concrete slabs, bathrooms, terraces and exposed roof.



- Bridges substrate crack up to 2 mm
- Crack resistant and Good Flexibility
- Superior freeze/thaw resistance
- Excellent resistance to salt, acids, alkalis and other chemicals
- Effective protection against acid rain
- Self-curing and breathable
- Resistance to UV exposure
- Non toxic and suitable for potable water
- Resistant to carbon dioxide an chloride ions
- Protection against acidic gases and alkalie

Properties	DryTex CEM	Test Method
Colour	White	
Density (Mix)	1.8 (Kg/m³)	ASTM D 1475
Consistency of mix	Fluid, applied by brush or roller	
Application temperature	5°C to 50°C	
Thickness	> 1000 micron	
Shore A Hardness	88	(ASTM D-2240)
Service Temperature	-10°C to 80°C	
Pot life of wet mix	60 min @ 35 °C	
Min. recoat time	2 hrs @20 °C	
Elongation	90 %	(ASTM D-412-98-a)
Tensile Strength	≥ 12 N /mm²	(ASTM D-412-98-a)
Compressive Strength	45 Mpa	(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 C 836
Root Resistance	No puncture	(EMPA .Lupinus albus)
Abrasion resistance	≤ 60 mg	ASTM D 4060
Flammability	Passed	(ASTME-108)
Toxicity	Non Toxic	BS 6920 :Part1:2000/SPAN
VOC	≤ 5%	ASTM D 2369
Fungus Resistance	Pass	(No growth)
Chemical Resistance	Pass	Excellent resistance
Reaction to fire	Class A	ASTM E 84
Coverage	1.5 Kg/m² @ 1000 micron thickness	
Drying time	4 to 8 hours	
Full time	4 days	
SRI (Solar Reflex Index)	≥ 75 %	EN 4101998

engineered to perform

SURAFCE.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 DRYTEX CEM. Pre-fill any open cracks larger than 2 mm with DRYTEX CEM or any other material recommended by OBS Embed a strip of reinforcing mat into the wet Select the suitable reinforcement material according to the substrate.

MIXING: Mix in a clean container by slowly adding the powder component to the liquid component 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
Wet the surface with water prior to the cementitious waterproofing application to have optimum bonding .Can be applied conventionally by brush ,roller or spray equipment.
It is recommended to apply first coat by brush to obtain optimum adhesion.
DRYTEX CEM 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: 0.75 Kg of mixed membrane applied wet at 500 micron thick will cover 1 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 0.75 Kg per 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 DRYTEX CEM H when the temperature is expected to be below 4°C within 48 hours, or when rain is imminent.

PACKING 15 KG POWDER + 5 L LIQUID

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.

WARRANTY On preapproved, qualified applications, when you use an approved applicator, a 10 year warranty is available. Contact OBS for complete warranty information.

engineered to perform

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