DryTex CEM-HF

Highly Flexible Modified Cementitious Waterproofing Membrane

DRYTEX CEM HF is a acrylic polymer modified highly 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 water and wastewater tanks, secondary containment structures, tunnels, concrete slabs, bathrooms, retain walls, Planter boxes, swimming pool where superior flexibility is required (waste water treatment facilities. **DRYTEX CEM HF** is a cementitious slurry mortar, consisting of dry Component A and liquid Component B.



- UV resistant
- Crack resistant and Superior Flexibility
- Superior freeze/thaw resistance
- Excellent resistance to salt, acids, alkalis and other chemicals
- Effective protection against acid rain
- Self-curing and breathable
- Continuous water immersion possible so ideal for swimming pool
- Superior negative/positive waterproofing
- Good for potable water

Physical Properties

Color	Grey	
Density (Mix)	1,600 (Kg/m³)	
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	-20°C to 80°C	
Pot life of wet mix	60 min @ 35 °C	
Min. recoat time	2 hrs @20 °C	
Elongation	250 %	(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	1.8 N /mm²	(ASTM C -297 Mod.)
Crack Bridging	3 mm	
Root Resistance	No puncture	(EMPA .Lupinus albus)
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

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 HF and reinforcing mat . Pre-fill any open cracks larger than 2 mm with DRYTEX CEM HF or any other material recommended by OBS Embed a strip of reinforcing mat into the wet DRYTEX CEM HF 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 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

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 HF 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: 0.8 litre of mixed membrane applied wet at 600micron 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 0.8litre 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 6-2 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-HF when the temperature is expected to be below °4C within 48 hours, or when rain is imminent.

Packing 15 KG POWDER + 5 L LIQUID

Storage And Transportation : DRYTEX CEM-HF, 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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