

TANKSHIELD CR-9200

Seamless tank lining with high chemical resistance

TANKSHIELD CR9200 is a elastomeric resin based resilient waterproofing and protection system, designed for waterproofing or protection of industrial water tanks and reservoirs with high chemical resistance. TANKSHIELD CR9200 suitable for internal and external applications with superior flexibility, long lasting and resistance to fungus and chemicals is required. TANKSHIELD CR9200 is a epoxy siloxane modified hybrid lining system consisting of two components suitable for highly corrosive environment, chemicals and chloride in atmospheric and immersion exposure.

FEATURES

- UV resistant and protection from corrosion
- Crack resistant and Superior Flexibility
- Superior freeze/thaw resistance
- Excellent resistance to salt, acids, alkalis ,ammonia and other chemicals
- Effective protection against acid rain
- Excellent low and high temperature resistant
- Free of flammable solvents
- Continuous water and chemical immersion possible
- Bridges substrate crack up to 3 mm
- VOC compliant and Environmentally safe

FIELD OF APPLICATION

Designed for oil and chemical storage facilities, residential and industrial waste water and process water storage and distribution lines, fire service lines and concrete bund, septic tank and fertilizers. Suitable for concrete, steel and all types of metals , GRP tanks and good for under ground and above ground applications. Specifically formulated for commercial and industrial tanks, pipes for waste water, gasoline , fuel and petroleum storages .This product also suitable gutters, down pipes, water features ,general leak repair prevention and external /retaining walls. Used to line concrete and steel tanks for offshore platforms, refineries, petrochemical plants and power plants.

Properties	Typical Values	Standard
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	Minimum 500 micron DFT	
Shore A Hardness	88	ASTM D-2240



engineered to perform

Service Temperature	-40°C to 120°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 /mm ²	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 /mm ²	ASTM C -297 Mod.
Crack Bridging	3 mm	
Root Resistance	No puncture	EMPA .Lupinus albus
Flammability	Passed	ASTME-108
Toxicity	Non Toxic	BS 6920 :Part1:2000/SPAN
VOC	≥ 50 g/L	ASTM D2369
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 materials on substrate , 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 TANKSHIELD CR9200 and reinforcing mat . Pre-fill any open cracks larger than 2 mm with TANKSHIELD CR9200 or any other material recommended by OBS Embed a strip of reinforcing mat into the wet TANKSHIELD CR9200 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 B component to the A 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. TANKSHIELD CR9200 Waterproofing Membrane has excellent high build properties, and can be built up to 2000 micron wet in multiple applications. 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 Apply the liquid system at a rate of minimum 0.5 litre/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 prior to coating system . For all round protection and durability, additional coat in the system can be applied at a rate of 0.5 litre per square metre giving an optimum dry film thickness to meet the project requirements .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 TANKSHIELD CR9200 when the temperature is expected to be below 4°C within 48 hours, or when rain is imminent.

Packing 20 Litre Set

Storage and Transportation TANKSHIELD CR9200 , 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.

