

DESCRIPTION

MonoSeal is a one-component (add water only), Portland cement based coating containing silica-based materials. Under water pressure, the soluble silicate penetrates into the substrate, where it reacts with lime and forms insoluble calcium silicate crystals which “plug” the capillary pores and waterproofs the concrete while allowing water vapor to pass.

ADVANTAGES

Barrier Materials. Simple application (brush or spray)
Negative- or positive-side waterproofing.
Seals dynamic cracks up to 1.5 mm.
Fast cure waterproofing.
Approved for potable water tanks.
Waterproofs highly porous concrete.
Non-flammable.
Economical to use

COMPLIED STANDARD

- ASTM D4541-17
- AMST C384-14

RECOMMEND TO USE

MonoSeal can be use for water tanks, water treatment Tank, Fire tank retaining walls, foundations, concrete pipes, sumps, bridge decks.

EXECUTION METHOD

Surface preparation

Ensure all surface where MonoSeal is to be applied must be free from oil, grease, wax, loose materials and any previous surface treatment, which may harmfully affect the adhesion. Areas with weak or honeycombed concrete, as well as hollow debonded render, must be repaired. Surface to be treated must be pre-wetted and still be damp at the time of application.



By brush application

Add approximately 7 to 8 litres of water to every 25kg bag of MonoSeal and mix for approximately 3 to 5 minutes using mechanical mixer to get a lump-free, homogeneous and creamy consistency. For vertical surface application, the water may be reduced to minimize run off on the surface. Do not add additional water after initial mixing.

Apply a basecoat of MonoSeal in slurry consistency at compressed-air spray equipment, stiff masonry brush, or stiff broom. Apply the second coat of MonoSeal at a uniform rate of (0.75-1.0 kg/m²) after basecoat has reached initial set but is still “green”.

By spray and sprinkling application:

- With 3.0-4.0 kg/m² all the surface need to waterproofing

Curing

The slow drying of MonoSeal is to ensure homogeneous curing and high waterproofing characteristics. MonoSeal must be protected from rapid drying due to high temperature or strong wind, and cure by plastic sheet

PACKING

MonoSeal premix is a one-component material packaged 25 kg bag

EXPIRY DATE

MonoSeal 1 has a self life of 12 months in tightly closed original packing

SPECIFICATIONS	
Appearance	Grey
Composition	Cement, silica sand, additives
Consumtion: By brush application By spay and sprinkling	2.0-3.0 kg/m ² 3.0-4.0 kg/m ²
Bond Strength with Concrete	> 1.2 N/mm ²
VOC Content	0 g/L
Setting Time at 30oC `: Initial Final	Approx. 90 mins Approx. 110 mins

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