



FLEXSEAL

DESCRIPTION

FLEXSEAL is a surface applied capillary waterproofing coat for concrete and mortar. It contains high-grade silica aggregates, cement and moisture-activated chemicals. FLEXSEAL can effectively blocks the passage of water and ensure water tightness of the structure through forming of crystals in water bearing capillaries.

USES

FLEXSEAL can be use for retaining walls, water tanks, foundations, water treatment works, concrete pipes, sumps, bridge decks, etc..

ADVANTAGES

- Simple application (brush or spray)
- Becomes an integral part of the structure
- Provides water vapour permeability
- Effective against both positive and negative water pressure
- Economical to use

METHOD OF USE

New Construction

For new construction, upon removal of formwork, FLEXSEAL can be applied immediately as its curing process will also ensure the full hydration of concrete.

Existing Construction

Structures subject to water ingress must be carefully inspected to determine its cause.

The careful sealing of existing cracks and joints before the application is extremely important for effective waterproofing results.

The penetration and rate of crystalline development will vary with the density and surface absorption of the concrete.

In powder form, FLEXSEAL may be used as a dry shake on horizontal and vertical construction joints.

Surface Preparation

Ensure all surface where FLEXSEAL 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 de-bonded render, must be repaired. Surface to be treated must be pre-wetted and still be damp at the time of application,

Mixing

Add approximately 7 to 8 litres of water to every 25kg bag of FLEXSEAL 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.

Application

FLEXSEAL can be applied by brush or spray on the dampened surfaces.

Apply FLEXSEAL in 2 coats at right angles. The second coat should be applied while the first coat is firm, but still 'green', which is usually about 3 to 4 hours after the application of first coat (dependent on temperature).

Note: If subsequent decoration is required onto the treated surface, the FLEXSEAL should be first protected by a cement/sand render.

Curing

The slow drying of FLEXSEAL is to ensure homogeneous curing and high waterproofing characteristics. FLEXSEAL must be protected from rapid drying due to high temperature or strong wind, and cure by plastic sheet or mist spraying. Note that curing compound is not suitable to be used with FLEXSEAL system.

Tanks and other retaining structures may be filled 24 hours after final application of FLEXSEAL as the crystal growth is accelerated by water pressure.

HANDLING

FLEXSEAL should be stored in a dry place under shade, free from moisture contact.

Remove splashes from skin with water. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention.

CONSUMPTION

1.0 to 1.5 kg/m² per coat applied by brush and 2.0 to 2.5 kg/m² per coat applied by trowel. Actual consumption depends on surface porosity, profile and wastage.

PACKING

FLEXSEAL is supplied in 25 kg bag.

SHELF LIFE

FLEXSEAL has a shelf life of 12 months in original packing.

SPECIFICATIONS	
Composition	Cement, silica sand, additives
Appearance	Grey
Density (mixed)	2020 kg/m ³
Setting Time @ 30°C	
Initial	Approx. 90 mins
Final	Approx. 110mins
Pull off bond strength	> 1.7 N/mm ²
Application temperature	> 5°C
Toxicity	Non toxic

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