

V11S

Elastomeric cementitious waterproof coating

Uses

V11S provides a cementitious, elastomeric coating with inherent crack-bridging ability. Typical applications include:

- Potable water retaining structures
- Potable water excluding structures
- Internal basement waterproofing
- Drainage culverts
- Waterproof coating for water tanks and reservoirs
- Backing to marble and granite, preventing water ingress and alleviate staining
- Flexible coating to bridge shrinkage cracks
- Re-facing and re-profiling concrete and masonry surfaces
- Can be applied to damp substrates
- No primer required
- Able to take foot traffic when cured

Advantages

- Withstands high positive and negative hydrostatic pressure
- Excellent crack accommodation before and after immersion
- Non -toxic – ideal for potable water tanks
- Excellent bond to concrete and masonry

- Easy application by brush, trowel or spray
- Bonds to green or damp concrete
- Excellent barrier to carbon dioxide, chloride ions and water
- Allows water vapour to escape from the structure
- High resistance to the effects of long term weathering, durable in all climatic conditions including UV attack

Standards compliance

V11S complies with:
 BS 6920:1990 Effect on water quality
 DIN 1048: Water penetration test

Description

V11S is a two-component polymer modified cementitious waterproof membrane which is supplied in ready mix kits. When mixed, an easily brush able coating is produced. It can simply be applied by a stiff brush, roller, spray or trowel to obtain the desired thickness.

V11S is available in grey and white colors, cures to form an elastomeric impermeable membrane.

Properties

Typical properties of mixed material

Pot life at 35°C : 30 min

Color : grey or white

Minimum application temperature: 5^oc

Resistance to positive water

Pressure (DIN 1048) : 7 bar

Resistance to negative water

Pressure (DIN 1048) : 3 bar

Static crack accommodation : 0.9 mm

Adhesion to substrate : 1 N/mm²

Water Permeability (DIN 1048) : Nil

Instructions for use

Preparation

All surfaces which are to be coated must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Typically, concrete surfaces can be cleaned using high pressure water jet or grit blasting. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with elmrr's repair mortars.

Mixing

The liquid polymer (5 ltr) is poured from the plastic container into a plastic or metal drum having a volume or at least 20 litres. To this, the powder part is gradually added (15 kg) whilst mixing with a spiral paddle attachment on a slow speed drill. Mixing is continued until a lump free slurry is obtained.

Application

Pre-dampen the substrate surface with water. High porosity substrate will require more dampening than dense substrates. When the substrate is damp, apply the material using a

soft bristled brush or trowel. The first coat should be applied at a minimum wet film thickness of 1 mm and should be well brushed in to the surface. If the brush begins to drag during application, do not add water to the material, but dampen the surface again. Application may also be made by roller.

The first coat should be allowed to cure for a minimum of 3 hours at 35^oc and longer at lower temperatures. The material should not be applied at temperatures below 5^oc. all the mixed material should be used within 30 minutes at 35^oc. the second coat should also be applied at a minimum wet film thickness of 1mm and finished in one direction. Pre-dampening of the surface is not necessary when applying the second coat.

Estimating

Supply

Powder component : 15 kg bags

(Grey or white color)

Liquid polymer : 5 liter

Coverage

9 m² / 20 kg kit

A minimum coverage of 3.8 kg/m² applied in not less than 2 coats is recommended.

Storage

Shelf life is 6 months in unopened packs stored below 35^oc in a shaded environment.

Health and safety

Contains cement and polymer powders which, when mixed with water or upon becoming



damp, releasing alkalis which can be harmful to skin.

During use, avoid inhalation of the dust and contact with skin or eyes. Wear suitable protective clothing- eye protection, gloves and respiratory equipment (particularly in confined spaces)

The use of barrier creams to provide additional skin protection is also advised. In case of contact with skin rinse with plenty of water, then cleanse thoroughly with soap and water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical advice immediately-do not induce vomiting.

Fire

Non- inflammable

For further information please contact your local Elmrr office.

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