

ConSeal WS2

Polymer Modified Flexible Cementitious Waterproofing Coating

Product Description

ConSeal WS2 is a two-component acrylic co-polymer based flexible cementitious coating that requires only on site mixing to form the ideal product to waterproof and resurface concrete, masonry, and most other construction materials. It also provides an effective barrier to waterborne salts and atmospheric gases. **ConSeal WS2** is composed of specially selected cements, silica sand and reactive fillers supplied in powder form together with a liquid component of blended acrylic copolymers and wetting agents.

Usages Area

ConSeal WS2 is strongly recommended for many waterproofing applications, such as swimming pools, balconies, bathrooms, wet areas, basements, roof gardening, roof waterproofing system in damp conditions where other systems cannot be used, lift pits, etc. **ConSeal WS2** can also be used as a backing coat for marble, stone and other mineral based cladding to protect against rising moisture.

Advantages

- Can be applied to freshly hardened concrete
- Excellent elongation and flexibility
- Non-toxic, suitable for use in potable water tanks
- Protection against carbonation and chlorides
- Breathable coating
- Excellent adhesion
- Easy to apply by brush
- Increased frost and salt resistance
- Excellent for damp proofing basements
- Exhibits crack bridging and sealing property
- Protects from solvents water, sea-waters, etc.
- Very good adhesion to moist substrates
- Does not act as a barrier between steel and concrete
- High coverage rate and easy to use

Technical Data

Property	Test Method	Value
Component		Two: Part A – Liquid Part B – Powder
Mixed Form		Slurry
Colour		Grey-Off white available on request
Mixed Density	BSEN 12350-6	2.00 kg/ltr +/- 0.05
Toxicity	BS 6920-1	Non-Toxic
Working Time		25-40 mins



Setting Time		3-4 hrs
Water Absorption	BS 1881-208	> 95% reduction over control
Bond Strength	ASTM D4541	1 N/mm ²
Water Permeability	BS 12390-8	Nil
Crack bridge ability (at 5 bars pressure)	ASTM C836	No Crack at 1.40mm width
Tensile Strength	ASTM D412	1.5 N/mm ²
Elongation	ASTM D412	> 40% (un-bonded)

Preparation

As with all type of coating application procedure, the surface must be stable and free of anything which would hinder bonding, such as dust, loose particles, grease, oil, residual curing compound, mould release agent or any kind of corrosion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas. Spalled concrete should be cut back to sound concrete and made good with a suitable cementitious repair.

Mixing

ConSeal WS2 is supplied in pre-measured units. Slowly add powder to the liquid and using a slow speed drill machine fitted with a paddle, mix to a lump free smooth consistency. Do not rework a stiffened mix by adding more water. Only mix sufficient quantity of material that can be used within 30-40 minutes.

Application

Do not apply to dry concrete and saturate the concrete surface with clean water. Apply the first coat while the surface is still damp with no free-standing water. Apply using a short stiff bristle brush or roller at a minimum thickness of 1 mm per coat. After 2-6 hours, apply the second coat in perpendicular direction to the first coat. The second coat can be finished by rubbing down with a soft sponge. Spray or trowel application is acceptable provided the mixing ratio is adjusted to achieve the right consistency.

Recommended Coat

ConSeal WS2 is recommended for 2mm thickness in two coats and application over hollow blocks or highly porous areas, a minimum of 3 coats to total thickness of 3 mm be applied.

Curing

ConSeal WS2 should be protected from high wind, direct sunshine and rain until fully cured. Keep the treated area moist for 3-4 days after application.

Coverage

6 m²/set at 2mm thickness in two coats. Actual coverage depends on porosity and texture of the substrate.

Package

12 kg set

Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction.

Health & Safety

No hazards and not inflammable
No health hazards and environment friendly
Safe to handles and non- hazardous
If spread in mouth or eyes, wash by much water; before taking food, hands should be washed out properly with soap or detergent.

Support

BCCL Management are providing technical support and service on specify dosages, chemical mixing, application method and by perfect supervision.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives, as the conditions of use and the competence of any labor involved in the application are beyond our control