



MoyaProof WS2

Polymer Modified Semi Flexible Cementitious
Waterproofing Membrane

DESCRIPTION MoyaProof WS2 is a two component, cementitious, acrylic co-polymer based high quality, versatile, weather resistant, moisture barrier and vapour permeable, permanent external coating system for roofs, wet rooms, facades, prior to curtain walls, aluminium cladding, EIFS installation or any non-load bearing assemblies. Based on the updated UAE Fire & Safety Code requirement for facade protection coatings, MoyaProof WS2 offers a permanent and environmentally friendly solution, as an alternative to a bituminous based moisture barrier behind aluminium and / or glass cladding.

USES MoyaProof WS2 is suitable for many waterproofing applications, such as swimming pools, water tanks, balconies, bathrooms, wet areas, basements, roof waterproofing system in damp conditions where other systems cannot be used, lift pits, etc. It 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
- Increased frost and salt resistance
- Excellent for damp proofing basements
- Exhibits crack bridging and sealing property
- Sprayable

TYPICAL PROPERTIES at 25°C

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
Bond Strength	BSEN 1542 / ASTM D4541	> 0.8 N/mm ² at 28 Days (+20° C & 50% RH)
Water Permeability (at 5 bar pressure)	BS 12390-8	Nil
Water Permeability (at 7 bar pressure)	BSEN 12390-8	Nil
Crack Bridge Ability	ASTM C1305	No Crack at 1.40mm width



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Permeability to water vapour Equivalent thickness of air S_D (m)	EN ISO 7783 - 1	$S_D < 5$ m (permeable to vapour) Class - I
Tensile Strength	ASTM D412	> 0.6 N/mm ² at 28 Days (air cured, +20° C & 50% RH)
Elongation	ASTM D412	> 40% (un-bonded)
Fire Rating	EN 13501-1 / ASTM E84	Class A Fire Rated

SURFACE PREPARATION Surface should be clean and sound, free of dust, loose particles, grease, oil, primers from previous membrane systems or bitumen. Bitumen or primers should be removed by shotblasting or mechanical means. Spalled concrete should be repaired by cutting to sound concrete and patching with ReCon GP.

Special recommendations for critical areas of application:
It is recommended to use Conmix ConTape at all critical areas such as intersections, corner joints, floor/wall junctions, gaps, peripheral areas of pipelines before the application of MoyaProof WS2. Before fixing Conmix ConTape, the gaps and corners should be filled and levelled with polymer modified mortar ReCon GP.

MIXING MoyaProof 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 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 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. It is recommended that for application over hollow blocks or highly porous areas, a minimum of 3 coats to total thickness of 3 mm be applied.

MoyaProof WS2 may be reinforced with glass fibre mesh or other suitable material embedded into the first coat when wet. Second coat should be applied in a direction perpendicular to the first coat. All dirt, dust or contamination that falls on the coating between coats should be removed before applying the next coat. Film thickness may be checked with a wet film gauge.

Spray Application : Spray application is recommended for large areas, details of suitable equipment can be provided by Conmix's Technical Department.

PACK SIZE 25 kg set



MoyaProof WS2

YIELD	12.5 ltr/25 kg set	
COVERAGE	6 m ² /set at 2mm thickness in two coats. Actual coverage depends on porosity and texture of the substrate.	
CURING	MoyaProof 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.	
NOTE	<p>To improve the bonding between MoyaProof WS2 and the subsequent finishes such as repair mortars, screeds and tile adhesives, it is strongly recommended to use FitBond SBR as bonding agent. Application should be wet on wet.</p> <p>Fiber mesh (80-120GSM) is recommended to be used for the areas exposed to foot traffic and also areas where coating is expected to undergo high pressure.</p> <p>In case of spray application, MoyaProof WS2 (Sprayable) to be used; size of nozzle - 8mm.</p>	
GENERAL INFORMATION	Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	Cleaning	Clean all equipment and tools with water immediately after use.
HEALTH and SAFETY	PPE's	Gloves, goggles and suitable mask must be worn.
	Precautions	Contact with skin, eyes etc. must be avoided.
	Hazard	Regarded as non-hazardous for transportation.
	Disposal	Do not reuse containers. To be disposed off as per local rules and regulations.
	Additional Information	Refer MSDS. (Available on request)
TECHNICAL SERVICE	CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.	

