

WF578

WATERPROOFING COLOUR FINISHES (SEMI-FLEXIBLE)

EXTERNAL GRADE TWO COMPONENT WATERPROOFING

PRODUCT DESCRIPTION

OPTIMIX WF578 WATERPROOFING COLOUR FINISHES (SEMI-FLEXIBLE) is a premium grade two components pigmented waterproofing coating. Its innovative design provides a flexible waterproofing treatment onto exposed and exterior building elements in a selection of pastel colours.

When used in conjunction with an embedded alkaline resistant fiberglass mesh the resulting membrane maintains its localized crack bridging capability whilst reinforcing the membrane as an extra safety measure. Cement based and highly polymerized, **OPTIMIX WF578** maintains good bonding to all stable mineral and cementitious based substrates.



TYPICAL USAGE

- High performance coloured finish layer for renovation works on buildings
- Applications onto rendered or tiled surface to provide a simple but durable finish
- An environmental friendly system with enhanced safety measures for façade renovation to replace traditional re-rendering and re-tiling
- Tanking applications on roof to provide an effective waterproofing over existing finish

FEATURES AND BENEFITS

- Easy To Use And Apply
- Reinstate Waterproofing Properties
- Good Bonding To Render And Tile Surface
- Avoid Sudden Falling Finishes
- Flexible To Accommodate Movement
- Stable Colour Under Natural Weathering
- Seal Minor Cracks
- Environmentally Friendly

TECHNICAL DATA

Product Characteristics	OPTIMIX WF578	
	Without Mesh	With Mesh
Tensile Strength at 28 days	~ 0.8 MPa	~ 6 MPa
Elongation at 28 days	~ 90 %	~ 5 %
Bond Strength at 28 days	~ 0.7 MPa	~ 0.8 MPa
Water Sorptivity at 28 days	~0.0110 mm/min ^{0.5}	
Water Penetration at 28 days (3d @ 0.5MPa)	0 mm	

Packaging & Yield	
Density	1,350 kg/m ³
Coverage / Yield per set (for 2mm Thickness)	14.5 m ²
Packing Size	25 kg powder + 10 kg emulsion
Shelf Life	12 months

Note: The above are typical laboratory test results and can vary slightly depending on the ambient and substrate conditions during application.

Environmental Data	
Volatile Organic Compounds (VOC)	~ 12 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites
Packaging Composition	Paper bags incorporating 40% recycled paper



Testing Methods	
Tensile Strength and Elongation	BS 2782 : Part 3
Adhesion Strength	HKHA/MTS (00/02), Part D, Cl. 2.1.15
Sorptivity	HKHA/MTS (2000), Part D, Cl. 2.1.10
Water Penetration	DIN 1048 Pt. 5, Cl. 7.6 (Modified*)
VOC Content	USEPA Method 24

Note: The tests were performed according to the national standard or in-house modifications of the corresponding testing procedures

**The concrete slab was cured for an unspecified period > 28 days.*



INSTALLATION GUIDE

(Refer to Method Statement for more details)

SURFACE PREPARATION

Surface must be clean and free from unsound materials, oil, grease and other contaminants. Pre-treat the substrate with water jet to remove dust, loose particles and any weak coating.

Surface with delamination or structural defects should be made good with appropriate **OPTIMIX** repair products. The substrate maybe slightly pre-wetted to saturated surface dry condition and excessive surface water should be removed. No running water is allowed.

MIXING

Mixing should be carried out using a low speed (~600rpm) drill and paddle or similar forced action mixer.

The **OPTIMIX WF578** powder should be added into the dispersion and mixed for about 3 minutes or until a lump free homogenous mixture is achieved. The mix should be left to normalize for 5 minutes and then briefly remixed before use.

APPLICATION

The mixed slurry should be applied by trowel onto the substrate to build up an initial layer of 1-2mm thick. If spray machine or stiff brush is used, please contact our technical representative for more applicable ratio of the powder to emulsion.

Alkaline resistant fiberglass mesh is highly recommended to be pressed onto the first applied layer as reinforcement. Depending on the contour of the substrate the fiberglass mesh may need forming into shape and holding in position until the **OPTIMIX WF578** has achieved strength. Wait until the first layer has achieved sufficient strength to support the mesh and receive a second layer

without damage before continuing. Depending on site conditions this may be half a day or longer.

A second layer of around 1-2mm thick should be applied and finished with a trowel, roller or brush to the desired finishing texture.

FINISHING

OPTIMIX WF578 can be applied in multiple layers. Reinforced mesh should be provided to build up the thickness and to achieve desire strengthening properties. The finished surface should be protected from strong wind, direct sunlight, water spraying or raining as this affect the colour consistency and result in colour variations. It is recommended to allow the material to dry for at least 1 to 2 days prior to the application of subsequent decorative coating or protective material as final finishes.

HEALTH AND SAFETY

OPTIMIX WF578 is alkaline in nature and can cause irritations to persons with sensitive skin. Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

STORAGE

Store the products in a cool and dry place with the original unopened bags on pallets with plastic wrapping. Protect from direct sunlight, rainfall and exposure to high humidity conditions. Avoid excessive stacking of pallets. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging and reduce shelf life.



Important Note: The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.