WP513

WATERPROOF PRO (SLURRY)

HIGH POLYMER SEALING AND WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

OPTIMIX WP513 WATERPROOF PRO (SLURRY) is a two-part high flow waterproofing slurry based on high grade OPC modified with high dosage re-dispersible polymers and water repellent additives.

Designed primarily for interior applications ***OPTIMIX WP513 WATERPROOF PRO (SLURRY)*** is easy to use and is ideal for Professional and DIY installations alike. Its strong polymer-cement blend gives reliable long term protection against water penetration and provides an excellent base to receive subsequent renders, adhesives, paints and other common construction layers.



TYPICAL USAGE

- Waterproofing Bathrooms, Showers, Toilets, Kitchens and other wet areas.
- Damp proofing of Concrete, Brick Walls and Cementitious Floor.
- Waterproofing of Balconies, Planters, Water Tanks.
- General sealing of concrete surfaces prior to receiving subsequent levelling and decorative construction.

FEATURES AND BENEFITS

- Consistent Quality
- Simple and Easy to Use
- Highly Waterproof
- Vapour Permeable
- Excellent Adhesion to Substrate
- Applicable on Damp Surfaces
- Non-Toxic



TECHNICAL DATA

Product Characteristics	***OPTIMIX WP513***
Compressive Strength @ 28 days	> 30 *MPa*
Flexural Strength @ 28 days	> 10 MPa
Tensile Adhesion Strength @ 28 days	> 2.0 MPa
Initial Surface Absorption Test @ 60 mins	< 0.005 ml/m^2/s
Initial Surface Absorption Test @ 120 mins	< 0.002 ml/m^2/s

Packaging & Yield	***OPTIMIX WP513***
Wet Density	~ 2,000 kg/m^3
Yield per pack	12.5 L
Coverage	1 - 3 kg/m^2 per coat**
Number of Coats	2 to 3
Packaging	20 kg Powder + 5 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)	≤ 10 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	
Compressive & Flexural Strength	EN1015-11
Tensile Adhesion Strength	EN1015-12
Initial Surface Absorption Test (ISAT)	BS 1881: Pt 208
VOC Content	USEPA Method 24

Note: The tests were performed according to the national standardor in-house modifications of the corresponding testing procedure



INSTALLATION GUIDE

(Refer to Method Statement for more details)

SURFACE PREPARATION

First inspect the surface to be treated with ***OPTIMIX WP513***; Sharp edges or protrusions that may damage the membrane should be chiselled flat, knocked down or removed with a wire brush.

Substrate must be clean, free from oil, grease and other contaminants. For best results wash and brush the substrate with water jet to remove dust and loose particles. ***OPTIMIX WP513*** can be applied onto a damp substrate but surface water should be removed or allowed to dry out. Application onto ponding or running water is not allowed.

MIXING

For brush application ***OPTIMIX WP513*** should be mixed as a complete pack of 20kg Powder + 5kg Liquid. Alternatively small mixes can be prepared by carefully measuring the powder and liquid by weight in the ratio of 1kg Liquid + 4kg Powder.

If trowel application is preferred then the quantity of liquid added can be reduced to 1kg Liquid + 4.5kg Powder.

- Do not add extra water to the mix.
- Do not increase the liquid addition above 1kg Liquid + 4kg Powder.
- Do not decrease the liquid addition below 1kg Liquid + 4.5kg Powder.

Mechanical mixing with slow speed drill fitted with a suitable paddle is recommended. Mix the mixture for about 5 minutes or until a lump-free homogeneous mix is achieved and the material is immediately ready for use.

APPLICATION

The mixed slurry should be applied by brush or trowel and worked into the substrate.

The actual coverage rate will depend on the condition and type of substrate but as a general guide:

- Each coat of brushable consistency will result in a layer about 0.5mm thick.
- Each coat of trowellable consistency will result in a layer about 1mm thick.

In either case, apply AT LEAST 2 coats with the second coat being applied at 90 degrees to the first coat once the first coat has hardened.

FINISHING AND CURING

The applied surface of the ***OPTIMIX WP513*** should be protected from strong sunlight, strong drafts, rain, splashes and any other form of running water until it has completely hardened.

For best results allow 1 to 2 days before applying other finishes.



Once cured, the waterproof membrane is smooth and somewhat hydrophobic but it will readily accept most self-adhesive materials such as tile adhesives, skim coats and paints without any further treatment. Loose and open textured materials such as site batched screeds and renders will benefit from the application of a ***PROCRETE*** bond coat over the ***OPTIMIX WP513***.

LIMITATIONS

There is no minimum or maximum overcoat time between layers but care should be taken to ensure that the underlying layer is firm enough to receive subsequent layers without damaging the first layer, or in the case of long period between coats, the underlying coat should be wiped clean and free from dust.

HEALTH AND SAFETY

OPTIMIX WP513 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.

ALTERNATIVE PRODUCTS

- ***WP515*** Waterproofing Slurry (General)
- ***WP533*** Waterproofing Slurry (Semi Flexible)
- ***WP568*** Waterproofing Slurry (Flexible)
- ***WF578*** Waterproofing Colour Finish (Semi-Flexible)



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.

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