Masonry Cement Composites (Pty) Ltd

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Hyseal 310 Polymer Cement Slurry 25Kg



SKU: MWMH310K

TECHNICAL DATASHEET

HYSEAL 310
Polymer Based Waterproofing Slurry

HYSEAL 310 is two-part polymer waterproofing slurry with a high degree of flexibility. High adhesion and water-resistant properties allow application to almost any surface. It seals concrete surfaces through moisture absorption, blocking the pores to prevent water penetration. Providing positive and negative waterproofing against dampness and ground water, as well as hydrostatic pressure.

TYPICAL APPLICATION
A slurry application for waterproofing sewage tanks, reservoirs and pools, shower walls and bases, balconies, pre-stressed concrete slabs.

ADVANTAGES
• Excellent adhesion
• High bond strength
• Improved impact resistance
• Easy application
• Waterproofing
• Non-toxic

WATCH POINTS

• Surfaces need to be able to dry out
• Do not add more water to the mix once initial set occurs
• Water addition must be checked on site for placement consistency
• Allow 5 days before exposing the slurry to extended water submersion.

DIRECTIONS FOR USE
Surface Preparation:
Surfaces are to be clean, sound and free of deleterious substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surfaces using wire brush, bush hammer, scabbler or other plant as appropriate. When repairing damaged concrete, ensure that all loose concrete has removed down to a firm base. Repair with PLAST 1038 or GROUT CEM 60. Surfaces can be damp but not continually wetting out or bleeding water.

Priming:
No priming is required. Dry surfaces are to be wetted with water and remain damp during application of the HYSEAL 310.

Application:
Mix 20 Kg HYSEAL (Powder) to 5Lts supplied white polymer liquid in a bucket using a mechanical mixer. Continue to mix until a chemical reaction occurs which will be noticeable due to the mixture thickening up from a very watery start. Ensure all lumps have been broken up and apply using a block brush or sprayer over surfaces. Use within 20 minutes of mixing with continuous agitation during application. DO NOT ADD MORE WATER to reconstitute the mix, rather discard the mix and make fresh. Apply with a sprayer or block brush or at a rate of 1mm thickness in one directional strokes (e.g. horizontally). Allow to cure for 12 hours between coats. Apply a second at right angles to the first one (e.g. vertically). A third coat maybe applied at right angles to the second coat (e.g. horizontally) after 12 hours where a high degree of certainly is required for waterproofing capabilities with a target thickness is 3mm. Once complete, keep exposed surfaces of the HYSEAL 310 damped down for 2-3 days using mist spray or using concrete curing compound to guard against premature dehydration of the slurry.

TYPICAL PROPERTIES

Equipment Care
Appearance Grey beige
Coverage 12m2 per kit
Finish Textured
Working Time 20 Minutes
Initial Set Time 30 Minutes
Hard Set Time 4 Hours
Overcoat Time 12 Hours
Application Temp. 15°C to 25 °C
Full Flex 3 Days
Waterproof Cure 5 Days
Application Thickness 1mm per coat
Target Thickness 3mm (3 coats)
Compressive Strength 15 MPa (1 day)
25 MPa (28 days)
Yield per Kit 12 Litres
Crack Bridging Limit 0.2mm
Water Resistance (28 Days Full Cure) Negative – 4 Bar
Positive – 10 Bar

All tools should be cleaned with water immediately after use. If delayed, the equipment will need mechanical action to clean or be discarded.

Warranty
Masonry Cement Composites (PTY) Ltd products have a manufacturing defect free warranty. Products, when applied as

stipulated in this technical datasheet, will perform as specified without manufacturing defect.
REVISION: 5.4