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PREM-BASE 760W

High Performance Waterproof Self-Smoothing Mortar

DESCRIPTION

PREM-BASE 760W is a two-component cementitious mortar for levelling tamped or uneven concrete floors in heavily trafficked areas prior to the application of Hydroseal LX. It incorporates advanced cement chemistry, metakaolin, fibre, epoxy, and styrene acrylic copolymer technology to give enhanced performance and excellent adhesion to concrete surfaces. When mixed, it exhibits a degree of flow to enable ease of application by pouring or pumping techniques to give an even finish. It hydrates to form a dense screed which exhibits both polymetric and resinous properties giving low permeability to water and ensuring long term performance. It is specially formulated to harden rapidly to form a durable surface which can typically be overcoated within 24 hours. The material is designed for application to sound substrates and joints and 'live' cracks must be continued through the finished system.

USES

PREM-BASE 760W is designed for levelling tamped or uneven concrete floors in heavily trafficked areas prior to the application of Hydroseal LX and can be placed from 3-60mm thick in a single application.

ADVANTAGES

Suitable for use on both level and sloping substrates and ramps.

- Wide range of application thicknesses. (3-60mm)
- Can be applied to saturated substrates or floors with no effective waterproofing membrane without risk of osmotic blistering.
- Excellent adhesion to dry and damp cementitious substrates.
- Dense matrix offers low permeability to water even at 10 bar positive and negative pressure.

Property	Value
Colour	Concrete Grey
Mixed Density	2000kg/m^3
Application Thickness	3-60mm (typically 10mm)
Min. Application Temp. Max. Application Temp.	5^{o}C 35^{o}C
Working Life (approx.)	10mins
Drying time	2-3 Hours

MECHANICAL CHARACTERISTICS (TYPICAL)

Property	Value
Compressive Strength 4 Hours 1 Day 7 Days 28 Days	BS 4554 Tested at 20^{o}C 4-10 MPa 10-10 MPa 30-40 MPa 45-55 MPa
Flexural Strength 1 Day 28 Days	BS 4554 Tested at 20^{o}C 5 MPa 12 MPa
Adhesive Strength Concrete Asphalt	BS 1881 Part 207 3MPa (including primer) >2MPa (failure to surface)

PROCEDURE

Surface Preparation: The areas to be treated must be free from all unsound material, i.e. surface laitance, dust, oil, grease, organic growth or previous surface treatments, and smooth surfaces should be mechanically roughened. This is best achieved using totally enclosed shot blasting equipment or alternatively a surface scaler/planer or scabbling machine can be used. Areas still exhibiting signs of oil, grease, etc. must be treated with a proprietary

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degreaser. In instances of heavy contamination, it may be necessary to use hot compressed air equipment, flame spalling or steam cleaning techniques. All debris should be removed to leave a thoroughly clean, dust free, open textured surface. Concrete should have a minimum strength of 20MPa.

Priming: The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water. To prevent out-gassing, the substrate should be sealed with Epoprime AC, at a typical rate of 5m²/litre. Allow to become transparent, typically 1-3 hours, dependent upon climatic conditions, before proceeding.

Mixing: It is important to ensure that a continuous supply of mixed material is available for laying. Shake Part A (liquid) and pour into a suitable mixing vessel. Slowly add the Part B (powder) and mix for a minimum of 5 minutes until homogeneous. The modules must be mechanically mixed using a drill and paddle specially designed to entrap as little air as possible. On larger contracts, multiple packs can be mixed at once. To maximise the working life, the Part A (liquid) should be stored in cool conditions or chilled in cold water. Bottles of liquid and bags of powder are not to be split.

Joints: All construction joints and 'live' cracks in the existing floor must be continued through into the new coating. The material should be continued into the faces of joints or cracks. Allow to cure for a minimum of 24 hours before reinstating joints with suitable sealant.

Placing: Prem-base 760W should be poured or pumped onto the prepared surface and spread to the required thickness with a trowel, squeegee, or pin leveler. Lightly roll the top surface with a spiked roller to remove entrapped air and to produce a slightly dimpled finish. Finishing must be completed within the working life of the material and no later than 10 minutes after placing. Allow to cure for a minimum of 4 hours before subjecting the application to light foot traffic.

Curing & Overcoating: Normal procedures relating to curing of cementitious products should be strictly adhered to. The surface must be protected from strong sunlight, drying winds and high air movements, to prevent skinning during placing and rapid drying out in the plastic state. Cure using Premcrete Cureaid AC, taking care to avoid overspray onto surfaces yet to be treated. Allow to cure overnight and prime with Premcrete Epoprime AC before over coating with Hydroseal LX.

Cleaning: All tools should be cleaned with water immediately after use.

PACKAGING & COVERAGE

Pack Size: PREM-BASE 760W is supplied in 30kg packs.

Coverage: A 30Kg pack will yield approximately 15ltrs of mixed material. A 30kg will cover 2.0kg/mm/m².

STORAGE & SHELF LIFE

Shelf life is 12 months in dry, frost free conditions at moderate temperatures not greater than 20°c.

HEALTH & SAFETY

See separate material safety datasheet.