

# HI-BUILD

Polymer modified, lightweight base render for applications requiring a build-up between 4-10 mm in thickness.

## DESCRIPTION

MAC Hi-Build render is a lightweight, polymer modified, cementitious base coat formulated for applications to rough surfaces requiring a heavy build-up. Hi-Build can be applied at thicknesses ranging between 4-10 mm in a single application.

## SUITABLE SURFACES

Hi-Build can be applied to any rigid masonry based surface with sufficient porosity. Surfaces include:

- > Clay/concrete bricks/blocks
- > Aerated concrete
- > Existing cement renders

Application to low porosity or non-rigid surfaces will require the addition of Macbond performance admixture. See Macbond data sheet for further details.



## COMPOSITION

Hi-Build is composed of HE class portland cement, redispersible polymer powders, graded sands, lightweight fillers and workability admixtures. The formulation provides optimum performance, durability and ease of application.

## MIX PREPARATION

Fill a clean mixing vessel with approximately 3 litres of clean water and slowly add the Hi-Build powder whilst stirring. Add entire contents of bag and adjust with more water to achieve the desired consistency. Allow to stand for 2 minutes prior to application. A 16 kg bag of Hi-build will require approximately 4 litres of water.

## APPLICATION

Prior to application, ensure that the substrate is clean and free from adhesion inhibiting materials including dirt, moss, grease or excessive water. Apply the Hi-Build mixture to the substrate with a steel trowel at the desired thickness. Allow the mixture to firm up sufficiently prior to ruling-off to form a flat surface. Once ruled-off, the surface can be lightly floated to help achieve a smoother surface finish. Hi-build is not designed as finishing render, but as a base levelling coat. Once the Hi-Build has dried sufficiently, skim with a single coat of Macrender® to achieve a surface finish ready for paint or a textured coating. Do not apply Hi-Build in excessively hot or windy conditions to avoid premature drying. Extremely porous substrata should first be dampened to assist hydration of the finished coating. Finished render must be allowed to cure for a minimum of 5 days prior to overcoating with acrylic paint or textured finish coat.

## CURING

The strength of the final coating will relate to the level of hydration of the cement component. Excessively rapid drying will result in a weaker render. MAC recommends that the finished render is lightly hosed with water in the days following application. Curing of the render will significantly improve the strength and durability of the final coating.

## MACBOND

Macbond is a high-performance polymer admixture formulated for addition to cement-based renders and adhesives. Macbond is mixed with water in various ratios then added to the dry-mix to provide the required level of adhesion for each specific job. Macbond is not required for all applications. See Macbond data sheet for particulars.

#### **PACKAGING**

Hi-Build is supplied as a dry-mix powder in 16 kg plastic lined, multi-walled paper sacks. Pallet lots of 60 x 16 kg bags are also available.

#### **COVERAGE**

A 16 kg bag of Hi-Build is expected to cover approximately 2 square metres at a thickness of 8 to 10 mm.

#### **WASH-UP**

Clean tools in clean water immediately after use.

#### **SAFETY**

Hi-Build is non-toxic however it contains cement which is alkaline in nature. Any material coming into contact with eyes or skin should be immediately flushed with clean water. This product may also contain trace quantities of respirable silica present only as an impurity. Eye, skin and breathing protection is recommended during preparation and application of Hi-Build.

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#### **IMPORTANT NOTE:**

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