

STUCCO BUILD

A dry mix polymer modified cementitious re-profiling and leveling mortar



PRODUCT DESCRIPTION

Dryvit Stucco Build is a cementitious polymer modified re-profiling and leveling mortar conforming to BS EN 13914-1, requiring only the addition of clean water. The product has been formulated to have excellent workability and open time properties.

FEATURES & BENEFITS

FEATURE	BENEFIT
• One coat application	Fast application rate
• Silicone polymer modified	Surface exhibits water repellency
• Factory produced quality controlled	Consistent workability
• Through coloured	Self finishing

DS.EN.04.53.04



USES

Stucco Build is primarily used as a re-profiling mortar on uneven substrates. Generally used as an optional component with the Dryvit Anti-Crack Render (ACR) Systems where brick/block or concrete substrates have to be levelled prior to the application of the selected Dryvit acrylic finish. Stucco Build can be applied between 6-12 mm in one application. It is used in conjunction with Dryvit Primax used for priming and curing and AC-100 when a key coat is required as part of a Dryvit ACR Systems.

PACKAGING

Stucco Build is supplied in 25 kg bags.
Primax is supplied in 14 kg pails.
AC-100 is supplied in 19 ltr pails.

COVERAGE

Stucco Build – 1 x 25 kg bag will cover
5.9 m² at 3 mm thickness
1.8 m² at 12 mm thickness
Approximately 1.7 kg Dryvit Stucco Build is required for each 1 mm thickness per m²

The actual yield of Stucco Build will depend on the consistency used and will be reduced by spray application. Coverage and yield figures are theoretical and allowance should be made for wastage and the profile and absorbency of the substrate.

Primax - 1 x 14 kg pail will cover
70 - 100 m² as a primer
70 m² as a curing agent

The actual yield of Primax used as a primer will depend on the texture and porosity of the substrate. Coverage and yield figures are theoretical and allowance should also be made for wastage.



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APPLICATION PROCEDURE JOB CONDITIONS

Temporary Protection

Must be provided at all times to protect Stucco Build and finish applications from damaging effects of precipitation, dirt and job-site contamination.

Substrates

Typical substrates – Brick masonry, medium density concrete block and in-situ concrete, etc.

Low porosity substrates – Dense pre-cast concrete and engineering bricks, etc.

High porosity substrates – Lightweight block and aerated autoclaved concrete, etc.

Preparation

All surfaces must be clean, dry, free of form-release agents, curing compounds, efflorescence, algae, mildew, paint, spalling or any condition that may adversely affect the adhesion of the Stucco Build.

Typical substrates should receive an application of undiluted Dryvit Primax acrylic primer over the surface, to improve bond and reduce ghosting of any mortar joints.

Low porosity substrates require expanded metal lath (EML) securely fixed to their surface to provide a mechanical key prior to Stucco Build application.

High porosity substrates should initially be dampen by spraying with water (do not saturate) followed by a spray or brush-applied surface sealer coat of undiluted Primax. Allow to dry before applying the Stucco Build re-profiling and leveling mortar.

MIXING & APPLICATION

Primax

The substrate should be dry and free of surface dust. Apply Primax to complete area, by brush or roller. Spray knapsacks may be used, using a brass tip nozzle for ease of cleaning. Allow Primax to thoroughly dry before proceeding with the application of Stucco Build.

Key coat slurry

Stir the Dryvit AC-100 to a smooth homogeneous consistency to disperse any settlement. Measure out 1 volume of Dryvit AC-100 as the gauge liquid and slowly add 2 volumes of Stucco Build while constantly mixing using an electric drill and mixing paddle at 450-500 rpm. Mix for at least 3 minutes to a uniform consistency. Apply the Stucco Build onto the wet slurry coat before it dries.

Stucco Build

To a clean 25 litre pail, add 4.0-5.0 litres of potable water per 25 kg bag. Add the Stucco Build slowly while constantly mixing with a Dryvit recommended mixing paddle at 450-500 rpm. Mix for at least 5 minutes to activate additives. Apply the Stucco Build between 6 mm and 12 mm by hand trowel or wet spray. Multiple coats may be necessary above 12 mm to achieve a smooth level finish. Localised repairs can be applied to a depth of 20 mm. Where applicable be sure to completely embed reinforced mesh (i.e. Dryvit ACR 150). The Stucco Build shall be worked with a straight edge or screed rail to achieve an even plane to the wall and floated when it has begun to set to remove excessive roughness. Final floating with a plastic/polyurethane/steel float must be done only after the Stucco Build has lost sufficient moisture so that the wet surface sheen has gone and before the Stucco Build is so rigid that it cannot be moved under the float (usually 1 to 2 hours). Floating may begin when the Stucco Build does not stick to a steel trowel placed against it. Do not over trowel the surface as this may cause excessive fines to be brought to the surface, resulting in cracking. Cool, damp conditions may require protection from rain, wind and dust. Please note that if required a final 3 mm thick application of Stucco Build can be applied to achieve a fair faced finish. Bonding and curing procedures as outlined above should also be adhered to for this application.

Working Time

Approximately 1 hour depending upon air temperature and relative humidity.

Drying Time

Approx. 24 hours at a temperature of +20°C and a relative humidity of 55%. At lower temperatures and a higher relative humidity of the substrate, drying time may be longer.

STORAGE

When stored in a dry place protected from weather and direct sunlight at temperatures between +5°C and 35°C shelf life is 12 months from the date of manufacture. Protect the packaging against damages and direct impact of the atmospheric conditions and moisture.

CAUTION AND LIMITATIONS

Use only clean potable water for mixing. Do not add too much water, as strength will be reduced. Apply in dry conditions out of direct sunlight. At time of application and for the following 24 hours air and substrate temperatures must not drop below + 5°C or rise above + 30°C. The product must be protected against direct sun and windy conditions so sheeting the façade or the scaffold is advised to achieve this. Surrounding windows window cills etc must be properly protected during application and early curing.

CLEANING

All equipment must be washed with clean water immediately after use. Disposal must be in accordance with local and national legislation and must not be emptied into drainage systems.

HEALTH AND SAFETY

Refer to the ACR System Application Instructions and the product Safety Data Sheets.



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PROTECTION AND CURING

In common with all cement based materials, Stucco Build must be cured immediately after finishing. This can be achieved by spraying Primax onto the surface of the newly finished Stucco Build in a continuous film. Large areas should be cured as trowelling progresses. The product must be protected against rain, direct sun and also wind should be taken into consideration, sheeting the façade or the scaffold is advised to achieve this. Do not apply if the substrate and the environmental temperature is below + 5°C. Surrounding areas and other building parts, such as windows, window cills etc, must be properly protected from unfavourable weather conditions during application and early curing.

Expansion Joints

All render expansion joints must follow structural movement breaks. For other expansion joints refer to BS EN 13914-1, or Dryvit UK Ltd.

Finish Application

Surface must not be saturated with water. Apply the desired Dryvit ACR System finish or coating a minimum of 48 hours after the Stucco Build has been installed. Any efflorescence shall be removed with a solution of Dryvit Efflorescence Remover and then rinsed thoroughly.

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