EWIPRO Render Systems

PRO-510

INSULATED UNDERCOAT

PRODUCT DATA SHEET



PRO-510 Insulated Undercoat is a lightweight, breathable insulating undercoat designed for internal walls where improved thermal performance and a stable background for subsequent plaster finishes are required.

Formulated with hydrated lime, Portland cement, mineral fillers and perlite, it can be built up in multiple layers to help level uneven internal substrates while improving the thermal performance of the wall.

Intended Uses

PRO-510 Insulated Undercoat is intended for internal application on suitable dense mineral substrates including blockwork, masonry, stone and concrete.

It is particularly suited to refurbishment and internal wall improvement projects where both surface levelling and additional thermal performance are required before the application of a compatible plaster finish.

Technical Specification

Composition	Hydrated lime, Portland cement, mineral fillers and perlite
Quantity Per Unit	30L / approx. 25kg
Colour	Grey
Granulation	0–2mm
Consumption	Approx. 1.1L/m²/mm
Minimum / Maximum Total Thickness	20–120mm
Maximum Thickness Per Layer	30mm
Recommended Thickness	Application dependent within the 20–120mm total build-up

Coverage Rate	Approx. 0.91m² per 30L unit at 30mm
Thermal Conductivity	Approx. 0.071W/m·K
Compressive Strength – 28 Days	≥2MPa
Water Mix Proportions	Approx. 14L of clean water per unit
Application Temperature	+5°C to +25°C
Working Time	Approx. 3 hours
Soluble Chromium (VI)	≤0.0002% (2ppm)

Please note: Thickness, consumption, coverage and time figures are indicative only and may vary depending on the substrate, application method and site conditions.

Please see the reverse of this page for directions for use.

Directions for use

Substrate Preparation

The substrate must be sound, clean, dry and free from dust, loose material, grease and other contaminants that may affect adhesion. Remove and repair weak, damaged or friable areas before application.

Where required, use a suitable primer according to the substrate type, condition and absorbency. Allow any primer or preparatory treatment to dry fully before applying PRO-510.

Product Preparation

Mix one unit with approximately 14 litres of clean, cool water until a homogeneous consistency is achieved.

Using a mechanical mixer, mix for approximately 2–3 minutes. When mixing manually, mix for approximately 4–5 minutes. Do not add additional water once the material has begun to set.

Application

Apply PRO-510 using a hawk and trowel or suitable spray equipment.

Apply in layers to achieve a total thickness between 20mm and 120mm, with each individual layer not exceeding 30mm. Apply evenly and level using a straightedge to remove excess material and achieve a consistent surface.

Leave the surface open and do not smooth, float or rub. Additional layers may be applied once the previous coat has sufficiently set, typically the following day.

Application Conditions

Apply when the air and substrate temperatures are between +5°C and +25°C.

Protect freshly applied material from rapid drying, frost, excessive heat, draughts and other conditions that may adversely affect curing.

Clean-up

Clean tools and equipment with clean water immediately after use. Once hardened, the material can only be removed mechanically. Do not dispose of waste material into drainage systems.

Packaging & Storage

PRO-510 Insulated Undercoat is supplied in 30L / approximately 25kg bags.

Store unopened bags off the ground in a dry, well-ventilated environment above +5°C. Protect from moisture.

Shelf life is up to 12 months from the date of manufacture when stored correctly.

Compliance with Standards

N/A

Safety Measures

Wear suitable gloves, eye protection, protective clothing and respiratory protection where dust is generated.

Avoid contact with the skin and eyes and avoid inhaling dust. Refer to the latest Safety Data Sheet for full handling, first aid and disposal information.

General Information

This data sheet replaces all previous editions. The information provided is based on current knowledge and practical experience, and while it has been compiled with care, it is not guaranteed to be accurate, complete or suitable for all applications. It is the responsibility of the user to verify the product's suitability for their specific use case. No legal obligations are established by this document.

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