

# PRO-511 HARDSET PRODUCT DATA SHEET

PRO-511 Hardset is a high-elasticity, fibre-reinforced internal undercoat designed to level and prepare masonry surfaces prior to the application of finishing plaster. Formulated with white Portland cement, reinforcing fibres, polymers, modifying additives and mineral fillers, it provides excellent flexibility and crack resistance while creating a strong, stable base for internal plaster systems. Its robust composition allows uneven brick and block substrates to be flattened efficiently, producing a uniform surface ready for final decorative finishes.

## Intended Uses

PRO-511 Hardset is designed for internal levelling and preparation of masonry substrates before the application of finishing plasters. It is suitable for use on brick and blockwork, as well as existing cement plasters, lime plasters and renders that require flattening or surface correction. The product is particularly useful where uneven backgrounds need to be trued before internal plastering works, ensuring a stable and consistent substrate for subsequent finishing layers.



## Technical Specification

### Composition

White Portland cement, reinforcing fibres, polymers, modifying additives and mineral fillers.

### Colour

White

### Quantity per Unit

25 kg/unit

### Granulation

0-1mm

### Consumption

Approx. 1.2 kg/m<sup>2</sup>/mm

### Reaction to Fire

A1

### Water Mix Proportions

Approx. 6.5 l/bag

### Application Time

Approx. 60 mins

### Minimum/Maximum Layer Thickness

3-20mm

Please note: These figures may vary based on the substrate and application method.

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

# Directions for use

## Substrate Preparation

Substrates must be clean, sound and free from dust, soot, grease, lubricants, release agents, paint residues, mortar droppings and other contaminants. The product must be applied to a stable substrate that has been correctly primed using PRO-313 Green Internal Grit.

## Product Preparation

Gradually add the dry mix to 6.5 litres of clean, cool water, mixing manually or with a low-speed mechanical mixer until a homogeneous, lump-free consistency is achieved. Allow the mixture to stand for 5 minutes, then remix thoroughly. All subsequent batches must be prepared in the same manner, as variations in water dosage may result in colour differences. Where partial bags are used, the entire dry compound must be thoroughly mixed before gauging, as components may have separated during transport. Material that has begun to set or has hardened must not be re-mixed.

## Application

Apply the material to the prepared substrate using a hawk and trowel to a thickness of 3-20mm. Once applied, level and straighten the surface using a straight edge, removing any high spots. Finish with a devil float to create a key ready for the internal plaster. Application should be carried out at ambient temperatures between 5°C and 25°C.

## Application Conditions

Application should be carried out at ambient, substrate and material temperatures between 5°C and 25°C. During application and drying, protect the material from rapid drying and unsuitable site conditions that may affect curing.

## Clean-up

Tools and equipment should be cleaned with clean water immediately after use. Once hardened, the material can only be removed mechanically.

## Packaging & Storage

PRO-511 Hardset is supplied in 25kg bags. Store unopened bags off the ground in dry conditions. When stored correctly, shelf life is up to 12 months from the date of manufacture.

## Compliance with Standards

PRO-511 Hardset conforms to EN 998-1. Installation should be carried out in line with current EWI Pro guidance, relevant British Standards and project-specific specification requirements.

## Safety Measures

Wear appropriate PPE, including gloves, eye protection, suitable mask and protective clothing. Wet mortar can irritate or burn skin and eyes. Remove contaminated clothing immediately, wash skin thoroughly with water, and rinse eyes cautiously if contact occurs. For full details, refer to the product Safety Data Sheet.

## 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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