



PRODUCT DATA SHEET

HARD COAT

Overview

Gyproc Hard Coat is a gypsum based undercoat plaster for use on most masonry backgrounds. Applied in conjunction with a final coat of Gyproc finish plaster, it allows a high quality, smooth and inert finish surface to internal walls. The finished combination has impact resistance, quick surface drying, resistance to efflorescence, and gives a base for the application of decorative finishes. Gyproc Hard Coat is a lightweight, retarded hemihydrate, pre-mixed gypsum plaster, incorporating special aggregates and additives, requiring only the addition of clean water to prepare it for use. It is suitable for application by hand or by plaster projection machine.

Applications

BACKGROUND / LINING	COAT THICKNESS MM	APPROX. WEIGHT SET AND DRY KG/M ²	APPROX. COVERAGE M ² PER BAG
Common brick walls and concrete bricks (with raked joints)	11	9.3	3
Engineering bricks (with raked joints)	11	9.3	3
Dense aggregate and lightweight aggregate concrete blocks	11	9.3	3
Aerated concrete blocks (pre-treatment may be necessary to control high suction)	11	9.3	3
No-fines concrete	11	9.3	3

*When applying by plaster projection machine, an allowance should be made for a reduction in coverage of approximately 10%.

Standards

Gyproc Hard Coat complies with *EN 13279-1 types B4/20/2 and C3/20*, and is manufactured under a quality system independently audited and certified as conforming with *ISO 9001: 2015*.

Performance

Fire Protection

Gyproc Hard Coat is classified without further testing as A1 in accordance with EN 13501-1 complying with EN 13279-1.

Gypsum plasters contribute to fire protection due to the behaviour of gypsum in fire. When gypsum-protected building elements are exposed to fire, dehydration by heat (calcination) occurs at the exposed surface and proceeds gradually through the gypsum layer. Calcined gypsum on the exposed face adheres tenaciously to uncalcined material, retarding further calcination which slows as the thickness of calcined material increases. Once the gypsum layer is fully calcined, the residue acts as an insulating layer while it remains intact.

Air-tightness

When applied to masonry walls Gyproc Hard Coat finished with a Gyproc finishing plaster can contribute to the overall airtightness performance strategy of a building – the application of Gyproc Hard Coat + Gyproc Skimcoat finish over 100mm Irish manufactured concrete blocks, laid on edge, can limit the air permeability. In Irish construction regulations, the requirement for levelling plaster to enhance airtightness performance is primarily addressed in Technical Guidance Document (TGD) L – Conservation of Fuel and Energy – Dwellings.

Thermal resistance

11mm Gyproc Hard Coat with a final coat of 2mm Gyproc finish plaster (total thickness 13mm) has a thermal resistance(R) of 0.037m²K/W.

Acoustic performance

The application of Gyproc Hard Coat may improve the sound insulation performance of masonry walls. Gyproc Hard Coat adds additional mass to the wall and also seals the porous nature of the masonry, restricting the passage of sound energy.

Effect of condensation and other moisture

Gyproc Hard Coat should be protected from exposure to moisture. Prolonged or repeated exposure to moisture may cause a loss of strength and/or adhesion.

Effect of temperature

Gyproc Hard Coat is not suitable for plastering onto frozen backgrounds. It is recommended that background temperatures should be at least 5°C and the plaster should not be subjected to temperatures below 5°C before it has set. Dry, bagged and set plaster is not affected by low temperatures. Once fully set and dry, Gyproc Hard Coat should not be exposed to situations where the temperature exceeds 43°C. During the application of gypsum plasters in hot and/or dry conditions, care should be taken to ensure that rapid loss of water is avoided. Gypsum plasters require a proportion of the mixing water in order to set and achieve full strength. If the water is dried off too rapidly, the strength of the plaster will be impaired.

Installation

Resistance to efflorescence

Gyproc Hard Coat offers high resistance to efflorescence migration from background to surface, unlike sand and cement.

Resistance to cracking

No shrinkage cracking will occur with the use of Gyproc Hard Coat with a Gyproc finish plaster, unlike sand and cement.

Coverage

COVERAGE PER BAG M ²	SETTING TIME HOURS	WATER REQUIREMENT LITERS	DRY SET WEIGHT KG/M ²	PALLET QUANTITY KG
3m ² at 11mm thickness (applied by hand) Approx 10% less if sprayed	2 - 5	15L per bag	9.3 @ 11mm	1125 (45 bags)

*The above dry weight does not include finish plaster

Background preparation

Surfaces should be dry, clean and free from loose dust and dirt. They should be protected from the weather, and suitable for the chosen specification. Some masonry backgrounds of exceptionally high suction may require pre-treatment with GypPrime to control their suction.

Storage

Bags should be stored dry, as absorption of water shortens the setting time, causes set lumps to form in the bags and may reduce the strength of the set plasterwork. If storing on a concrete floor, dry timber platforms should be provided. Gyproc Hard Coat stored correctly has a shelf life of 120 days and bags are printed with the 'use by' date in order to permit use in strict rotation.

Mixing

Gyproc Hard Coat is pre-mixed and only clean water needs to be added to prepare it for use. Hand mixing should be carried out in a clean tray or bath. Excessive mechanical mixing should be avoided. Tools and water used in mixing must be clean. Contamination from previous mixes can shorten the setting time and in turn reduce the strength of the plaster when set.

Application

Gyproc Hard Coat should be applied with firm pressure, built out to the required thickness, ruled to an even surface and lightly scratched to form a key for Gyproc finish plaster. For machine application, the plaster should be sprayed on to the background in the form of a ribbon. The consistency should allow the ribbons to run together. When a substantial area is covered, Gyproc Hard Coat is worked and ruled as in hand plastering.

Finishing

Achieve a smooth, high quality surface finish ready for decoration using a suitable Gyproc finish plaster over Gyproc Hard Coat.

Drying

Gyproc Hard Coat dries from the surface, appearing surface dry before it is fully dry in depth. Environmental conditions and ventilation can also affect the drying time of the plaster.

Maintenance

Gyproc Hard Coat with a final coat of 2mm Gyproc finish plaster provides a plastering system suitable for high impact / wear areas. If the plaster is correctly applied, it should minimise any requirements for future maintenance.

Safety Data Sheet

A safety data sheet (SDS) for this product is available on www.gyproc.ie/documents/safety-data-sheets/sds-gyproc-ireland-gyproc-hard-coat.pdf

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For a comprehensive and up-to-date library of information visit the Gyproc website at: www.gyproc.ie



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May 2025 | PDS_P_HARD_COAT

