

ThistlePro Magnetic

Product Data Sheet

Product description

Overview

ThistlePro Magnetic is a gypsum finish plaster for use on a wide range of backgrounds. It provides a smooth, inert, high quality surface which attracts magnets to internal walls and ceilings, and a durable base for the application of decorative finishes. ThistlePro Magnetic is a retarded hemihydrate, pre-mixed gypsum plaster, requiring only the addition of clean water to prepare it for use.

Applications

ThistlePro Magnetic is designed for the finishing of a wide range of backgrounds, from low-suction (e.g. plasterboard, Glasroc F **MULTIBOARD** and Glasroc F **FIRECASE**, Thistle DriCoat, sufficiently flat concrete and other flat surfaces treated with bonding agents) through to medium suction of gypsum based undercoat plasters.

Standards

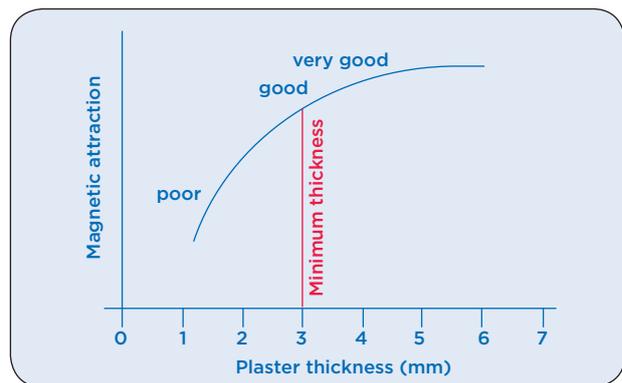
ThistlePro Magnetic complies with *EN 13279-1 type B2/20/2, gypsum plaster for internal plasterwork.*

All British Gypsum plasters are manufactured under a quality system independently audited and certified as conforming with *ISO 9001: 2008.*

Performance

Magnetic attraction

The magnetic attraction of a wall coated with ThistlePro Magnetic is determined by the thickness of the material applied and the strength of the magnets used.



Fire protection

ThistlePro Magnetic achieves a Euroclass A1 reaction to fire rating.

Thermal resistance

It should be assumed that ThistlePro Magnetic makes a negligible contribution to thermal resistance of building elements.

Effect of temperature

ThistlePro Magnetic is not suitable for plastering onto frozen backgrounds but it may be used under frosty conditions provided that, after plastering, the surfaces are adequately protected from freezing. Once fully set and dry, ThistlePro Magnetic is only suitable for situations where the temperature does not exceed 49°C. Dry, bagged plaster is not affected by low temperatures. 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.

Effect of condensation and other moisture

ThistlePro Magnetic should be protected from continuous exposure to moisture. Prolonged or repeated exposure to moisture may cause a loss of strength and / or adhesion.

Effect on electrical equipment

ThistlePro Magnetic has no effect on phone, wifi, radio etc.

Identification

ThistlePro Magnetic is dark grey in colour when dry. It is easy to decorate to any colour exactly as other finish plasters.

Product information

Sold in quantities of a single bag.

Coverage per bag m ²	Setting time hours	Water requirement litres	Dry set weight kg/m ²	Pallet quantity kg
5.1 @ 3mm thickness ¹	1.5	8.5 per bag	3.4	600kg (24 bags)

¹For best results a minimum of 3mm should be applied.

Application and installation

General

ThistlePro Magnetic should be applied between a minimum depth of 3mm and an optimum depth of 6mm. A full installation guide is available at www.british-gypsum.com/instructions

Background preparation

Plasterboards (excluding moisture resistant grade boards):

Skimming should be specified only on the face of boards, i.e. the side without a paper overlap. This will be the ivory face in the case of Gyproc WallBoard, Gyproc WallBoard **TEN**, Gyproc DuraLine and Gyproc HandiBoard, or the coloured face of Gyproc FireLine, Gyproc Habito and Gyproc SoundBloc. Joints must be reinforced with Thistle ProTape FT50 or FT100, or Gyproc Joint Tape.

A range of corner and stop beads is available for reinforcement of external angles and edges.

Moisture resistant grade boards: Skim plastering should not normally be specified to Gyproc Moisture Resistant and **MR** grade boards. These types of board are intended for use in environments of higher than normal humidity. Where moisture resistant board options are used in shell and core construction to provide temporary resistance to high moisture conditions, they can be skimmed at a later date after the building envelope has been made weather-tight. Plaster should be applied only to the face of moisture resistant boards and pre-treatment with Thistle Bond-It is required.

Glasroc F MULTIBOARD and Glasroc F FIRECASE: Skim finishing using ThistlePro Magnetic should be to the smooth face of

the board. Application techniques and joint reinforcement are similar to those used on plasterboards.

Undercoat plasters: Gypsum-based undercoats should be left reasonably flat and with a scratch key. They are usually finished when set but not dry – if they are dry there will be higher suction which may need to be reduced by damping down before finishing.

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. ThistlePro Magnetic stored correctly has a shelf life of 6 months and bags are printed with the manufacturing date in order to permit use in strict rotation.

Mixing

Thistle plasters should be mixed by adding clean water to clean mixing equipment. Contamination from previous mixes adversely affects the setting time and the strength. Fresh contamination has more effect than old – so equipment should be washed just after mixing rather than just before. Thistle finishing plasters are suitable for mixing by hand or mechanical whisk of a slow speed, high torque type. While mechanical mixing speeds the process up, there is no need to continue mixing after dispersing lumps and achieving the right consistency – over-mixing wastes time and energy, can affect setting times, lead to deterioration in workability and create difficulty in achieving a flat finish. A range of suitable mixers and paddles is available in the Gyproc Tools range.

Application

Plastering to board backgrounds: Plaster is applied with firm pressure, built out to the required thickness in two applications and trowelled to a smooth matt finish as the plaster progressively sets. Good site practice should be followed as outlined in *BS EN 13914 Code of Practice for Internal Plastering*.

For best results; first apply a thick coat of 2-3mm, after 10-15 minutes flatten with a spatula. After a further 40-50 minutes, using a freshly mixed batch of ThistlePro Magnetic, apply a second coat of 1-2mm. Trowel up as needed, avoid over polishing, avoid using water, only use damp trowel.

Thistle Thin Coat Angle Bead or Thistle Thin Coat Mini Mesh Bead is fixed to the plasterboard angle by embedding in 'dabs' of finish plaster. To hold the bead in correct alignment as the plaster sets it is recommended that additional mechanical fixings are used (non rusting nails, screws or staples) as required. Before this plaster sets, any surplus should be wiped from the corner, because scraping it away later may damage the zinc coating. If the bead is fixed to the board 'dry' the adhesion may be reduced because it is difficult to squeeze plaster between the bead and the plasterboard.

Before applying ThistlePro Magnetic to Gyproc plasterboards or Glasroc F **MULTIBOARD**, flat joints are reinforced using Thistle ProTape FT50 or FT100, or any gaps exceeding 3mm are pre-filled and reinforced using Gyproc Joint Tape. Thistle ProTape FT50 and FT100 fibre tapes are self-adhesive and are fixed to the board surface before the first application of plaster. Gyproc Joint Tape is embedded in the first coat over each joint, leaving sufficient plaster under the tape to ensure good adhesion. Gyproc Joint Tape is pressed firmly into the plaster and immediately covered with a further application.

Plaster is applied to the whole surface after the joint treatment has partially set, but not dried. For joints which may be subject to more movement (including around door or window apertures, where board edges are not fully supported or on ceilings below floors which are susceptible to high deflection), Gyproc Joint Tape embedded in the finish provides better resistance to cracking than fibre tapes.

Plastering to undercoat plasters: Apply with firm pressure, built out to the required thickness in two applications and trowel to a smooth matt finish as the plaster progressively hardens through setting or by loss of water into the background. If background suction is excessive, dampen it down before finishing. For best results; first apply a thick coat of 2-3mm, after 10-15 minutes flatten with a spatula. After a further 40-50 minutes, using a freshly mixed batch of ThistlePro Magnetic, apply a second coat of 1-2mm. Trowel up as needed, avoid over polishing, avoid using water, only use damp trowel.

Decoration

Gypsum-based plasterwork must always be thoroughly dry before decorating. Plaster surfaces can be decorated with most proprietary paint finishes and will accept the majority of wall covering adhesives. The manufacturers' recommendations in respect of applied decorative treatments should always be followed.

Maintenance

ThistlePro Magnetic on plasterboard provides a plastering system suitable for moderate impact / wear areas. When used over undercoat plasters the resistance to minor casual damage is good, while the resistance to damage from greater impacts depends also on the undercoat used. If the plaster is correctly applied, it should not require any form of maintenance.

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