



# Thistle Board Finish

## Product Data Sheet

### Introduction

#### Overview

Thistle Board Finish is a gypsum finish plaster for use on low-suction backgrounds. It provides a smooth, inert, high quality surface to internal walls and ceilings, and a durable base for the application of decorative finishes. Thistle Board Finish is a retarded hemihydrate, pre-mixed gypsum plaster, requiring only the addition of clean water to prepare it for use.

#### Applications

Thistle Board Finish is designed for low-suction backgrounds e.g. plasterboard, Glasroc F MULTIBOARD and Glasroc F FIRECASE, Thistle Dri-Coat, sufficiently flat concrete and other flat surfaces treated with bonding agents.

### Standards

Thistle Board Finish complies with *EN 13279-1 type B1/20/2*, and is manufactured under a quality system independently audited and certified as conforming with *ISO 9001: 2008*.

### Performance

#### Fire resistance

Gypsum plasters provide good fire protection due to the unique 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. While this continues, materials adjacent to the unexposed side will not exceed 100°C – below the temperature at which most materials will ignite and far below the critical temperatures for structural components. Once the gypsum layer is fully calcined, the residue acts as an insulating layer while it remains intact.

#### Thermal resistance

It should be assumed that Thistle Board Finish makes a negligible contribution to thermal resistance of building elements.

#### Effect of temperature

Thistle Board Finish 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, Thistle Board Finish 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

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

#### Coverage

Coverage per bag m <sup>2</sup>	Setting time hours	Water requirement litres per bag	Dry set weight kg/m <sup>2</sup>	Pallet quantity kg
10 @ 2mm thickness	1.5	11.5	3.4	1400 (56 bags)

### Installation

#### 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 and Gyproc SoundBloc. Joints must be reinforced with Thistle ProTape FT50 or FT100, or Gyproc Joint Tape. A range of corner and stop beads are 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 for which no gypsum plaster is designed to be suitable. 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 ThistleBond-it is required.

### **Glasroc F MULTIBOARD and Glasroc F FIRECASE:**

Skim finishing using Thistle Board Finish should be to the smooth face of the board. Application techniques and joint reinforcement are similar to those used on plasterboards.

### **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. Thistle Board Finish stored correctly has a shelf life of 4 months and bags are printed with the 'use by:' date in order to permit use in strict rotation.

### **Mixing**

Thistle plasters should be mixed by adding to clean water in 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. A range of suitable mixers and paddles is available in the Gyproc Tools range. 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.

### **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. Good site practice should be followed as outlined in *BS EN 13914 Code of Practice for Internal Plastering*.

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 Thistle Board Finish 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.

### **Decoration**

Gypsum-based plasterwork must always be thoroughly dry before decorating, although a coat of permeable paint can be applied in the interim. 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.

### **Tiling**

Tiles up to 20kg/m<sup>2</sup> can be applied directly to the Thistle Board Finish, except where the system includes a bonding agent. As the total weight of tiles and plaster applied over a bonding agent is limited to 20kg/m<sup>2</sup>, consideration should be given to tiling directly to the background. If plastering to provide a background for tiles, avoid polishing the surface. Polished plaster surfaces should be roughened and a suitable primer used.

### **Maintenance**

Thistle Board Finish on plasterboard provides a plastering system suitable for moderate impact/wear areas. If the plaster is correctly applied, it should not require any form of maintenance.

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**Telephone: 0844 800 1991**

**Fax: 0844 561 8816**

**Email: [bgtechnical.enquiries@bpb.com](mailto:bgtechnical.enquiries@bpb.com)**

**Training enquiries: 0844 561 8810**



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