Gyproc Joint Cement

Product data sheet

Introduction

Overview

Air-drying powder jointing material for all stages of plasterboard jointing, formulated for easy mixing and sanding.

Applications

Can be used for all stages of hand or mechanical jointing of plasterboard or Glasroc specialist boards.

Standards

Gyproc Joint Cement complies with *EN 13963 type 3A*, and is manufactured under a quality system independently audited and certified as conforming with *ISO 9001: 2000*.

Performance

Fire resistance

Most fire-rated British Gypsum systems require the board joints to be filled, either with Gyproc jointing materials or Thistle finish plasters, even in locations where the system is not visible to building users, in order to achieve the tested performance. Gyproc Joint Cement is suitable for this purpose.

Effect of temperature

Ambient and background temperature must be maintained above 2°C until fully dry. Dry, bagged product is not affected by low temperatures. The Gyproc plasterboard background is suitable for situations where the temperature does not exceed 49°C.

Effect of condensation and other moisture

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

Coverage

Jointing system	Reinforcement	Taping coat kg/100 lm	First finish coat kg/100 lm	Second finish coat kg/100 lm	Third finish coat kg/100 lm
Flat joint (tapered edge - hand applied)	Paper tape / fibre tape	12 (JF) 12 (JF) 12 (JC) 9 (EF)	6 (JC) 6 (JF) 6 (JC) 5 (EF)	6 (JC) 6 (JC) 6 (JC) –	– – – –
Flat joint (tapered edge - mechanical)	Paper tape	6 (JC)	6 (JC)	6 (JC)	3 (JC)
Flat joint (square edge)	Paper tape	3 (JC)	12 (JC)	–	–
External angle	Corner tape	22 (JF) 22 (JF) 18 (EF)	9 (JC) 9 (JF) 9 (EF)	9 (JC) 9 (JC) –	– – –
External angle	Metal bead	34 (JF) 34 (JF) 28 (EF)	9 (JC) 9 (JF) 12 (EF)	9 (JC) 9 (JC) –	– – –
Internal angle	Paper tape	12 (JF) 12 (JF) 12 (JC) 10 (EF)	8 (JC) 8 (JF) 8 (JC) 5 (EF)	8 (JC) 8 (JC) 8 (JC) –	– – – –

Notes to table

JF - Gyproc Joint Filler **JC** - Gyproc Joint Cement **EF** - Gyproc Easi-Fill / Gyproc Easi-Fill 45

1. These quantities should be used as a guide only – quantities used will vary depending on tools used and accuracy of board alignment.

2. Material used for pre-filling gaps, repairing damage, screw-spotting etc is not included.

3. When using a ready mix joint cement in place of powder, assume 1 litre is equivalent to 0.85kg of powder joint cement.

4. An allowance for waste and material sanded away should be added as appropriate.

5. External angle reinforcements should be fixed using a setting product – Gyproc Joint Filler or Gyproc Easi-Fill / Gyproc Easi-Fill 45, except Glasroc MultiBoard and Glasroc FireCase s.

Performance (continued)

Water requirement
Approximately 11 litres of water per 22.5kg bag.

Minimum temperature
Ambient and background temperature must be maintained above 2°C until fully dry.

Pallet quantity
40 x 22.5kg bags = 900kg.

Installation

Background preparation
Plasterboard surfaces should be reasonably dry, clean and protected from the weather. Boards should be securely fixed with no steps between adjacent boards. The correct fixings must be used and properly located with their heads just below the liner surface. Any protruding screw heads should be driven home with a hand screwdriver, prior to spotting and jointing. Gaps between boards greater than 3mm should be pre-filled using Gyproc Joint Filler, Gyproc Easi-Fill or Gyproc Easi-Fill 45, prior to taping with Gyproc Joint Tape.

Storage
Bags should be stored dry, as absorption of water causes lumps to form in the bags and may cause spoilage of the product. If storing on a concrete floor, dry timber platforms should be provided. Gyproc Joint Cement stored correctly has a shelf life of 6 months and bags are marked with the 'use by:' date in order to permit use in strict rotation.

Mixing
The powder should be added gradually to clean water in a clean mixing vessel, stirring continuously until a smooth creamy consistency is achieved. Excessive mechanical mixing should be avoided, and only low-speed mixers used. For best results leave to stand for 10 minutes and briefly remix before use. Mixed material may be stored and used over a week, if protected from drying out or contamination by other materials, then vessels cleaned before further use.

Application
If using Gyproc Joint Cement for all stages, apply to the joint to embed the tape and immediately overcoat to fully fill the tapered board edges. Allow to completely dry, then apply a second coat, feathered out beyond the first. Allow to completely dry, then apply a final coat, feathered out beyond the second. If using as the finishing coat(s) over Gyproc Joint Filler the procedure is similar except that the Gyproc Joint Filler can be overcoated when it has set but not dried. Procedures for finishing angle joints, screw spotting etc are similar – please refer to the British Gypsum SITE BOOK for full details.

Finishing
After the finishing coat has dried, sand lightly to remove trowel marks etc. Apply Gyproc Drywall Primer to the whole surface to prepare the surface for painting, or Gyproc Drywall Sealer in one coat to prepare for wallpapering or two coats to provide a vapour check.

Decoration
Apply decoration with the minimum of delay after Gyproc Drywall Primer or Gyproc Drywall Sealer has dried.
Note that, as with all wall and ceiling areas, gloss or high-sheen finishes will highlight any variations of the surface, particularly with shallow-angle lighting. The use of low-sheen or matt finishes minimises this risk. Jointing should be carried out under similar lighting conditions to those used for subsequent inspection and use.

Heavy, semi-rigid or impermeable wallcoverings may involve specialist adhesives or techniques which may not be compatible with Gyproc Drywall Primer or Gyproc Drywall Sealer. Consult the wallcovering and/or adhesive manufacturer for a specific recommendation. Impermeable wallcoverings fixed with water-based adhesives should not be applied over Gyproc Drywall Sealer, as the drying of the adhesive will be severely restricted.

Maintenance
If the product is correctly applied and not exposed to moisture or mechanical damage it should not require any form of maintenance.

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Health & Safety

1. Identification of the substances / preparation and company

Gyproc Joint Cement

Supplier	British Gypsum Limited East Leake Loughborough Leicestershire LE12 6HX
Telephone	08705 456123

Recommended uses: Jointing material for plasterboards and Glasroc specialist boards.

2. Composition / information on ingredients

General composition: Gyproc Joint Cement is limestone and mica based, with small amounts of vinyl polymers and workability aids.

3. Hazards identification

THE MOST IMPORTANT HAZARDS ARE:

This product is not classified as dangerous according to CHIP.

Dust from sawing or sanding may irritate the respiratory system, skin and eyes.

4. First aid measures

Eye contact	Wash eyes with clean water.
Skin contact	Wash thoroughly with soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse out mouth thoroughly and give plenty of water.
Inhalation	If irritation occurs, remove person to fresh air.
General	Get medical attention if any symptoms persist.

5. Fire fighting measures

The product does not pose a fire hazard. However, packaging materials may burn.

Suitable extinguishing media – water, foam, carbon dioxide or dry powder.

6. Accidental release measures

Avoid creating dust – see **Section 8** Exposure control/ personal protection for recommended personal protective equipment.

Product can be mixed with water, avoid eye contact or prolonged, repeated contact with skin – see **Section 3** Hazards identification.

Prevent product from contaminating drains.

7. Handling and storage

Use – Minimise dust generation when opening bags, mixing or sanding products in poorly ventilated places. Avoid eye contact or prolonged or repeated contact with skin – see **Section 8** Exposure control/ personal protection and **Section 3** Hazards identification.

Manual handling – Supplied in bags of 22.5kg – use appropriate lifting technique.

Mechanical handling – In order to maintain the stability of the palletised load, it is important that the lift truck fork length and centres are set to correctly support the load.

Storage – Store in dry conditions. All powdered products can settle in transport. To maintain stability, place pallets on firm level ground. Do not stack more than one lift high.

8. Exposure control / personal protection

Workplace exposure limit

Substance	Total inhalable	Respirable
Limestone	10mg/m^3 (8hr TWA)	4mg/m^3 8hr TWA

Personal protection

Respiratory	Use in a well ventilated area. Where practicable use engineering methods to control dust levels. If the exposure standards could be exceeded use a disposable face mask complying with *EN 149 FFP2*
Skin	Wear appropriate clothing to protect against repeated or prolonged skin contact.
Eye	If there is a risk of material entering the eye, wear eye protection to *BS EN 166*

Health & Safety (continued)

9. Physical and chemical properties

Appearance	Dry powder
Odour	None
pH	7 - 9

10. Stability and reactivity

No special physical conditions need to be avoided. No specific restrictions regarding incompatible materials.

11. Toxicology information

Inhalation	Dust may irritate the respirable system. No known long term effects.
Skin contact	Wet product may form an alkaline solution and irritate the skin. Dry powder can cause irritation.
Eye contact	Wet product may form an alkaline solution and irritate the eye. Dry powder can cause irritation.
Ingestion	Small quantities of product should not cause any significant reaction or long term effect.

12. Ecological information

Not applicable.

13. Disposal consideration

Classified as 'non-hazardous' but should not be co-disposed with municipal waste. Dispose at an authorised landfill site in accordance with the Waste Management Licensing Regulations (see **Section 16** – Other information).

14. Transport information

Not classified as hazardous for transportation.

15. Regulatory information

Not classified under the CHIP regulations.

16. Other information

Control of Substances Hazardous to Health Regulations
The Manual Handling Operations Regulations
HSE Guidance Note EH40: Workplace Exposure Limits
The British Gypsum **WHITE** BOOK
The British Gypsum **SITE** BOOK

Note to User:
This Product Data Sheet does not constitute a workplace risk assessment for COSHH.

There are a number of situations where the approach to manual handling of British Gypsum products should be considered. For further guidance, please refer to the Manual Handling Section of the **SITE** BOOK, available to download from www.british-gypsum.com

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