

GIB® Compounds

Selecting the right compound
for jointing GIB® plasterboard



Easy-View Compound



		GIB Tradeset®	GIB MaxSet®	GIB X-Block®	GIB Lite Blue®	GIB ProMix® Lite
Suitable for Joint Coat	Basecoat	✓	✓	✓	✗	✗
	2nd Coat	✓	✓	✓	✓	✗
	Finishing Coat	✗	✗	✗	✗	✓
	Suitable for Cove	✗	✗	✗	✗	✗
	Compound Type	Setting	Setting	Air Drying Powder	Setting	Air Drying Ready Mix
	Sanding	Moderate	Hard	Moderate	Easy	Easy
	Working/Set Times (mins)	20, 45, 90 & 150	90	-	90	-
	Product Size	5 kg*, 20 kg	20 kg	20 kg	17.5 kg	15 L & 14 L Carton
	Main Benefits	• Ideal for bedding tape • Machine tool compatible • Variety of setting times available	• Mechanically strong • Strong tape adhesion even in higher temperatures • Sets hard for faster jointing • Maximum coverage with low shrinkage	• Formulated to reduce x-ray transmissions • High shrinkage to create a denser joint • No need to back joints with lead strips	• Easy to sand • Machine and hand tool application • Low shrinkage	• Easy to sand by hand • Light weight and smooth to trowel • Yellow tint enables easy top coat identification when sanding • Low shrinkage

*GIB Tradeset® 150 is only available in 20 kg bags.

** For Victor® MultiPlus, refer to Solid rendering on page 15.

Selector



	GIB® TopCoat	GIB® U-Mix	GIB Plus-4®	GIB ProMix® All Purpose	GIB Cove® Bond	Victor® Cornice Bond
	X	X	✓	✓	X	X
	X	X	✓	✓	X	X
	✓	✓	✓	✓	X	X
	X	X	X	X	✓	✓
	Air Drying Ready Mix	Air Drying Powder	Air Drying Ready Mix	Air Drying Ready Mix	Setting	Setting
	Easy	Easy	Easy	Easy	Hard	Hard
	-	-	-	-	45 & 90	30
	15 L	20 kg	4 L, 10 L, 15 L & 14 L Carton	4 L, 10 L, 15 L & 14 L Carton	5 kg & 20 kg	20 kg
	• Heavy weight compound for machine sanding • Machine and hand tool application • Yellow tint enables easy top coat identification	• Economical finishing compound • Adjust viscosity as required on site • Good open time • Machine tool compatible	• Suitable for all three jointing coats • Ideal for skim coating • Excellent adhesion to a variety of substrates	• Suitable for all three jointing coats • Heavy weight makes it ideal for filling or covering uneven surfaces • Machine application and sanding	• Excellent "wet tack" • Suitable for back blocking • Two setting times available	• Specifically designed for adhering fibrous plaster products • Excellent adhesion and great for renovation work

Selecting the right compound is easy

Winstone Wallboards has a comprehensive range of GIB® compounds that join GIB® plasterboard sheets to create a uniform finish ready for decorating. As joints can be subject to structural movement (e.g. frame movement) and to minimise the risk of the joint cracking, the mechanical strength of the jointing system is an important consideration when selecting which compound to use.

Different compounds are suitable for different coats in a joint system. Typically three coats of joint compound are applied; a bedding coat, the second coat and a topping/finishing coat. Each coat must be dry before the next coat is applied, and completed joint treatment must be thoroughly dry before decorating. Normal minimum recommended drying time is 24 hours between each coat and before decorating. However air movement, relative humidity, temperature, the chosen product and machine tools can all have an effect on drying times and need to be taken into consideration.

Compounds are either supplied in powder form that need to be mixed with water, or are supplied ready-mixed and can be used straight from the pail. Compounds harden either by simply

drying (i.e. air drying compounds) or through a chemical reaction when the compound comes in contact with water and sets (i.e. a setting compound, also referred to as a plaster based compound).

Compared to air drying compounds, setting compounds are generally mechanically stronger, faster to accept the subsequent coat, more cost effective, harder to sand, able to fill larger gaps and are supplied in powder form only. Air drying compounds can be supplied in powder form or more commonly in ready mix form, have little/no shrinkage and generally take longer to dry.

The following pages detail which GIB compounds are better suited for particular conditions or preferences.





Basecoat Compounds

The First Coat - Embedding GIB® Paper Tape

Typically the first coat is a setting compound such as GIB® Tradeset or GIB® Maxset. A paper tape is embedded in the plasterboard joint with the application of the first compound coat. The tape provides critical mechanical strength to the joint, essential to withstand frame movement and resist cracking. GIB® paper joint tape has been fully tested for use with GIB® compounds and GIB® plasterboards in New Zealand conditions. Paper tape absorbs compound to form a solid joint with good shear strength. Winstone Wallboards only recommends the use of GIB® paper joint tape for producing reliable strong joints.

The Second Coat

Typically, the second coat applied is a setting compound, e.g. GIB Tradeset®, GIB MaxSet® or GIB Lite Blue®. It is not necessarily the same compound as the first coat, for example, a good combination can be to bed in with a hard compound such as GIB MaxSet® and follow with GIB Lite Blue® as an easy to sand second coat that enables easy correction of slight imperfections.

GIB Tradeset®

- **Machine and hand tool application**
- **20, 45, 90, 150 setting times available**
- **Ideal for bedding in paper tape**



GIB Tradeset® is a proven, popular and consistent compound, ideal for bedding in paper tape. It is designed for use as a first and second coat compound in a three-coat system. It can be easily scraped back once set, and all setting times are available in 5kg bags (except GIB Tradeset® 150) and 20 kg bags.

GIB Tradeset® 20 is great for small jobs or patching holes and GIB Tradeset® 45 is ideal for use during high ambient temperature conditions, e.g. in summer on a ceiling. GIB Tradeset® 90 is typically used on complete house jobs and for use with machine tools where the longer set times reduces the risk of the compound setting before work completion. GIB Tradeset® 150 provides an even longer “open” working time.

Warning: Longer set time compounds need to be used carefully and their limitations understood, particularly in regards to drying before setting; see section on “hot weather conditions” under the Helpful Information section at the back of this brochure.

GIB MaxSet®

- **Strong tape adhesion even in high temperatures**
- **Sets hard for faster jointing**
- **Maximum coverage with low shrinkage**



GIB MaxSet® is a strong compound that sets hard, allows for faster jointing and provides a solid base for subsequent coats. Whilst it can be mixed easily by hand, it is preferable to drill mix as this will increase the coverage of this compound by up to 15%, reduces water content per lineal metre, and therefore reduces the risk of joint peaking. GIB MaxSet® has been formulated to provide better tape adhesion during summer; it fills larger gaps and has less shrinkage compared to most other compounds.

Warning: GIB MaxSet® sets hard and therefore must be scraped back approximately 30-90 minutes after it becomes too thick to trowel.

GIB Lite Blue®

- **Easy to sand**
- **Machine and hand tool application**
- **Low shrinkage**



GIB Lite Blue® is an ideal second coat compound. Although a setting compound, its drying time is similar to that of an air drying compound. It is formulated to be easy to sand, allowing imperfections to be easily sanded away should the finish coat be too thin to enable a perfect finish. GIB Lite Blue® has good open time, setting profile and flow. It performs well under the trowel as well as through a 'box' and provides free flowing application and a smooth 'bubble' free finish. GIB Lite Blue® remains pliable for longer, meaning that long joints can be worked together and 'topping and tailing' after application with a box can be accomplished more easily. GIB Lite Blue® has low shrinkage and is a lighter weight compound with coverage similar to that of heavy weight compounds.

GIB X-Block®

- **Formulated to reduce x-ray transmissions**
- **High shrinkage to create a denser joint**
- **No need to back joints with lead strips**



GIB X-Block® jointing compound is formulated to complement GIB X-Block® plasterboard as a lead-free lining system for X-ray facilities, such as in hospitals, dental surgeries and veterinary clinics.

The compound is to be used as the first two coats in the X-Block® jointing system. GIB X-Block® is used in the normal manner, with paper joint tape in the first coat. It is formulated to have high shrinkage (30%) to create a more dense joint. Due to this level of shrinkage, it is important to allow each coat to dry properly before application of the next coat, to avoid hollow or shadowed joints. The compound may then be finished with any of the other GIB® air-drying finishing compounds.



Finishing or Topping Compounds

Finishing compounds are air drying compounds available either as ready mix or dry powder products. Finishing compounds typically have low shrinkage, are easier to sand and are generally not as strong as bedding or multipurpose compounds. Three GIB® finishing compounds are available.

GIB® TopCoat

- Heavy weight compound for machine sanding
- Machine and hand tool application
- Yellow tint enables easy top coat identification when sanding



GIB® TopCoat is a smooth hard and heavy weight compound with great “body”. Designed to ensure machine sanding does not mark or scuff the surface as readily as a soft compound, GIB® TopCoat is a high solids formulation that is good for filling imperfections in the second coat. Its smooth consistency is well suited for both mechanical tool as well as hand application. GIB® TopCoat is tinted light yellow to distinguish it from previous coats, which is particularly useful when sanding.

GIB ProMix® Lite

- Easy to sand by hand
- Yellow tint enables easy top coat identification when sanding
- Low shrinkage



GIB ProMix® Lite is a light weight topping compound, specifically formulated to be easy to sand by hand. It has low shrinkage, to ensure little movement in the top coat after application. GIB ProMix® Lite is also tinted yellow to easily distinguish the finishing coat when sanding. GIB ProMix® Lite is a popular finishing compound with a creamy consistency for smooth trowelling and finish.

GIB® U-Mix

- Economical finishing compound
- Adjust viscosity as required on site
- Good open time
- Machine tool compatible



GIB® U-Mix should only be used as a finishing compound. It is a trade oriented air drying compound supplied in a dry powder form, and mixed on site. This makes it possible for the end user to adjust the viscosity should there be a need for a thicker or thinner product, by adding more or less water. Once mixed, this product should be used within three days. GIB® U-Mix has a creamy consistency with good open time and maybe applied with trowel or ‘box’. GIB® U-Mix offers an economical finishing compound alternative with each 20 kg bag covering more linear metres of joint than most 15L pails of ready-mixed compound.



Multipurpose Air Drying Compounds

Multipurpose compounds are air drying compounds that can be used for a first, second and finishing coat and offer great versatility and convenience. They are also suitable for use with mechanical tools as they eliminate the risk of the compound setting inside the mechanical tool. Air drying compounds will take considerably longer to dry before the next coat can be applied and generally do not shrink back to “pull” the paper joint tape to the same degree as setting compounds.

GIB Plus 4®

- Suitable for all three jointing coats
- Ideal for skim coating
- Excellent adhesion to a variety of substrates



GIB Plus 4® is a multipurpose compound ideal for use in all situations. It can be used for all three coats of the jointing system and is also recommended for skim coating. It is a lightweight all-purpose compound with excellent adhesion to many substrates and is relatively easy to sand by hand, however can be machine sanded with care. It has low shrinkage and is commonly used in the trade as an excellent finishing compound over GIB Tradeset® to create a great overall joint. Its versatility and proven performance also make it popular for small repairs and DIY work.

GIB ProMix® All Purpose

- Suitable for all three jointing coats
- Heavy weight makes it ideal for filling or covering uneven surfaces
- Machine application



GIB ProMix® All Purpose is a heavy weight multipurpose compound suitable for use in all taping, second and topping coats. Considered by many as a great alternative to GIB Plus 4® as it has a bit more “body” or viscosity enabling good filling and coverage of uneven substrate when taping or second coating, or for work around features such as columns and recess shelving etc. This extra “body” gives GIB ProMix® All Purpose unique trowelling properties and therefore is preferred by some in the trade. GIB ProMix® All Purpose has a smooth creamy consistency for easy application and smooth finish, long workability for use with machine tools, and is suitable for use with machine sanders.



Cove and Cornice Compounds

Cove and cornice is normally attached to the wall and ceiling corner with a plaster based setting compound specifically designed to have more “wet tack” to assist in keeping the cove in place as the compound sets.

Using a setting compound ensures that in an environment with very minimal air drying opportunity, the compound still fully cures and provides reliable strong adhesion.

GIB-Cove® Bond

- **Excellent “wet tack”**
- **Suitable for back blocking**
- **Available in 45 and 90 set times**



GIB-Cove® Bond is a setting compound specifically formulated to bond GIB-Cove® with GIB® plasterboard walls and ceilings. It has excellent “wet tack” and initial bonding properties to assist in keeping the cove in place as the compound sets. In addition, this product can also be used for back-blocking, laminating plasterboard, and direct bonding of GIB® plasterboard to masonry and concrete walls.

Victor® Cornice Bond

- **Great spreadability**
- **Excellent adhesion**
- **Ideal for fibrous plaster works**



Victor® Cornice Bond is formulated to bond fibrous cornices or other fibrous plaster works and for stopping fibrous plaster sheet joints. It can be polished to a smooth surface, but trade level skills are required to achieve a flat polished surface. Due to its excellent adhesion, it can also be used as the taping coat to joint existing walls or other smooth or painted surfaces to new plasterboard e.g. for renovation work. Always scratch the old board painted surface with a wire brush to give a key for the plaster. Victor® Cornice Bond has great spreadability, a buttery consistency and a set time of approximately 40 minutes.

Helpful tips & precautions

Hot weather conditions (drying out before setting)

Setting compounds require water to set hard. This chemical setting occurs after the specified time for a compound (i.e. a 90 minute set product, actually starts to set after 90 minutes). If the water content in the compound is lost or greatly reduced before the setting process starts, e.g. the compound has dried before it starts to set, then the chemical setting process can not occur and the compound will not achieve its required strength and adhesion. The symptoms of this are:

- the compound will be soft
- have little or no mechanical strength and adhesion
- the tape may bubble, crack or even fall out

Setting compounds must not dry out before their specified set time.

Drying out before setting can occur due to a number of reasons, including:

- high temperature
- high airflow
- low humidity
- use of long set time compound
- inadequate compound placed under the tape
- no compound placed over the tape immediately after bedding in of tape
- compound is watered down, diluted or unauthorised retardants are added

To avoid drying out before setting, Winstone Wallboards recommends the following:

- Do not use 150 minute set time compounds when the temperature



exceeds 25°C (in front or behind the joint, e.g. a skillion roof on a hot day can create very high temperatures behind a joint)

- Use lower set time compounds, e.g. 90 minutes or less, during the summer months of November to April
- Plaster ceiling joints located under roofs early in the morning when the temperature is cooler, especially during summer
- Be wary of areas where insulation has not been placed in ceilings e.g. garages, as the plasterboard can be hotter causing the compound to dry more quickly
- Ensure at least 0.5mm of compound is placed behind the tape, use only paper tape, and coat the finished side of the tape with a thin layer of compound to slow evaporation under the tape
- If machine tools are being used, ensure the compound is being applied at the correct thickness
- Use back-blocking to significantly reduce the amount of load transferred to the joint

Cold and damp weather conditions

Water, wet compound, air and surface temperature above 10°C should be maintained when mixing, applying and until the compound is completely dry. Structures may require heating to achieve this temperature. During winter months or under cold damp conditions, drying rates can be improved using more but thinner coats of compound.

Air drying compounds take longer to dry than setting compounds in colder humid climates and when applied thicker, i.e. over 1.5mm. For example at 16°C and 90% relative humidity, a layer of 1.5 - 2mm thick air drying compound takes 4 days to properly dry. Setting compounds are therefore recommended in colder conditions as a first and second coat.

Shrinkage and drying

Setting compounds usually shrink back to a degree to ensure the joint tape is pulled back into the joint as it sets. Once set, the joint will continue to shrink at a much reduced rate as the compound

dries, and stop shrinking when dry. Painting over a joint with compound that has not dried properly can delay shrinkage by several weeks or even months.

Installing wall trims

When bedding in GIB® Ultraflex trims or GIB® Goldline™ products setting compound should be used. Stronger and

more reliable adhesion will be achieved when using a setting compound.



Approximate coverage of Joint Compounds

	Coverage in linear metres per kg		Coverage in linear metres per package size
	2 coats (taping plus 1 coat)		
GIB Tradeset®	10		200 (per 20 kg bag)
GIB Lite Blue®	11		187 (per 17.5 kg bag)
GIB MaxSet®	13		256 (per 20 kg bag)
	Top coat only		
GIB ProMix® Lite	9		172 (per 19 kg pail)
GIB® U-Mix Finishing Compound	19		371 (per 20 kg bag)
GIB® Top Coat	8		189 (per 24 kg pail)
	All 3 coats (taping plus 2 coats)	Top coat only	
GIB ProMix® All Purpose	3	8	69 (per 22.5 kg pail)
GIB Plus 4® ***	5	10	146 (per 15 kg pail)

*** Skim coat coverage at 1 mm thick is approx. 10 m² per kg or 20 m² at 0.5 mm thick

Note, these are estimated quantities only and can vary significantly due to site conditions and fixing practices. They are intended as a rough guide only and should not be used for quoting purposes.

Skim coating

GIB Plus 4® is the recommended compound for trowel applied skim coating to achieve a Level 5 finish.

(Refer to the GIB® Site Guide for Level of Finish definitions and for details on skim coating application).

Solid Rendering

Use Victor® Multi Plus for screeding/rendering a solid plaster over a masonry surface i.e brick block and tilt slab, in an interior environment. Victor® Multi Plus can be mixed with sand and applied up to 10mm thick in one application. An unblended coat is usually applied as a finishing coat. This plaster compound differs from joint compounds in that water can be applied during the setting stage to allow polishing of the compound

to a very smooth “glass” finish. Trade level skills are required to achieve a flat polished surface with this product. For application details refer to the GIB® Site Guide. Victor® Multi Plus is available in a 90 minute set time and 20kg bags.



Back-blocking

Back-blocking plasterboard joints virtually eliminates movement in the joint and greatly reduces the possibility of cracking, popping and peaking in the joint area if done correctly. Refer to the GIB® Site Guide where back-blocking is required.

USE GIB-Cove®, GIB Tradeset® or GIB Maxset® as the bonding agent, and ensure it has been put on at least 3mm thick with a notched trowel. Compounds must not be applied if they have started to set, or are thickening up.

General limitations and recommendations

- Ensure that (partially) hardened compound is not mixed with fresh compound
- Ensure tools are thoroughly cleaned when using a new batch of compound
- Do not mix compounds
- Add only clean water and only as per the instruction on the packaging
- Store compounds as per the instructions on the packaging
- GIB® compounds are for interior use only and after installation should not be exposed to high levels of moisture
- Generally a longer set time compound has a marginally lower joint strength if everything else is kept the same.
- Do not apply setting compounds over air drying materials
- Do not use setting compounds for skim coating walls, as a thin coating will dry out before setting and can cause issues with paint adhesion
- Air drying compounds are normally not suitable for gaps larger than 2 mm or holes deeper than 1 mm, as they take an excessive amount of time to dry out. A setting compound should be used in this situation.

For further important information refer to the GIB® Site Guide, product packaging and www.gib.co.nz



Warnings & Precautions

Hazards

GIB® Jointing Compounds are specifically formulated and tested for use on GIB® Plasterboards. These products and its dust may be harmful to the eyes, skin and respiratory system. Prolonged and repeated skin contact may lead to chronic skin irritation (dry, cracked skin). Repeated inhalation of dust may cause chronic lung problems. Avoid exposure to excessive dust and always wear a safety mask complying with NZS/AS 1715 & 1716 when mixing or sanding this product.

Small children can fall head first into the pail and are at risk of suffocating or drowning. If there are children present when using these products, ensure that a secure lid is always placed on the container of the mixing powder.

Encasing or making moulds of any part of the body using these products may cause severe burns.

For a copy of the respective MSDS (Material Safety Data Sheets) contact the GIB® Helpline on 0800 100 442 or visit www.gib.co.nz

In emergency contact the National Poisons Centre on 0800 POISON (0800 764 766)



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