COMPOUNDS
PRODUCTS AND APPLICATIONS
INTRODUCTION

Boral Gypsum and USG Corporation have joined forces to become market leaders across Asia, Australasia and the Middle East, transforming the two companies into a world-leading building products business, USG Boral Building Products (USG Boral).

At USG Boral, we believe the best innovations start with a purpose – a focus on why the innovation is needed and who will benefit from it. Our focus is to deliver innovations that help you work smarter, do more and build better. Through an ever-growing portfolio of groundbreaking products backed by unparalleled service, we empower our customers to grow their business, much the same way you build cities and communities the world over. We do so by investing in purposeful innovation, expanding into different markets and constantly searching for new ways to increase performance and productivity.

This commitment to innovation and focus on you, our customer, is inspired by a desire to enable architects, contractors and workers alike to improve the way we live by changing the way buildings are designed and built.

COMPOUNDS

USG Boral manufactures and supplies an extensive range of high-quality and consistent products including joint compounds, adhesives and plasters to suit all types of applications. These range from adhering plasterboard to timber or metal studs, plasterboard jointing to fixing cornices.

For easy reference, we have put the products under the typical applications they were formulated for:
- Joint compounds
- Adhesives & specialty plasters

All USG Boral joint compounds, adhesives and plasters are manufactured to stringent USG Boral product quality specifications and have a shelf life of up to 12 months.

TABLE OF CONTENTS

1.0 JOINT COMPOUNDS .................................................. 4
   1.1 BEDDING & BASE JOINT COMPOUNDS ...................... 8
   1.2 FINISHING JOINT COMPOUNDS ............................... 10
   1.3 ALL PURPOSE COMPOUNDS .................................. 12
   1.4 PRIMERS ................................................................ 12
   1.5 PATCHING COMPOUNDS ....................................... 13
   1.6 X-RAY .................................................................. 13

2.0 ADHESIVES & SPECIALTY PLASTERS ......................... 14
   2.1 ADHESIVES & BONDING COMPOUNDS ...................... 18
   2.2 WET AREA COMPOUNDS ....................................... 19
   2.3 SPECIALTY PLASTERS .......................................... 20
   2.4 SKIM COMPOUNDS ............................................... 21

3.0 JOINT SYSTEMS ......................................................... 22
   3.1 SETTING COMPOUNDS ........................................... 24
   3.2 AIR-DRYING COMPOUNDS .................................... 24
   3.3 JOINTING TAPES .................................................... 24
   3.4 JOINTING SYSTEM .................................................. 25
   3.5 COVERAGE .............................................................. 25

4.0 LEVELS OF FINISH .................................................... 26
   4.1 LEVEL 3 .................................................................. 26
   4.2 LEVEL 4 .................................................................. 26
   4.3 LEVEL 5 .................................................................. 26

5.0 FRAMING TOLERANCES ................................................. 27
USG Boral manufactures and supplies an extensive range of high-quality and consistent joint compounds including bedding and base compounds, finishing compounds, cornice adhesives, all-purpose to patching and skim compounds to transform your plasterboard joints, angles and fastener heads into one seamless surface.

USG Boral recommends the use of a 3 coat joint system for all plasterboard joints with high quality paper tape such as SHEETROCK® Paper Joint Tape. Paper tape must be used in all fire rated applications, wet area applications and where drying type compounds are used for jointing.

**BEDDING & BASE COMPOUNDS**

USG Boral’s range of bedding and base compounds ensures contractors have the right compound for the right application and environmental conditions. For contractors preferring the use of mechanical tools, use longer working time BaseCote™ 90 and Easy Sand™ 90, or if there is a preference for air-drying type joint compounds then consider our SHEETROCK® Taping Joint Compound or RediBase™. The advantage of using air-drying joint compounds, especially under hot and dry conditions is that it reduces the risk of a premature dry-out associated with plaster-based compounds.

**FINISHING COMPOUNDS**

USG Boral’s range of ready-mix finishing compounds are air-drying type compounds suitable for final coating plasterboard and FIBEROCK® joints. The range is based on contractors’ sanding hardness preferences ranging from moderate sanding hardness of FinalCote®, easy sanding of LiteFinish™, to light sanding of UltraLightweight and Total Lite™ finishing compounds. Under mechanical sanding, it is preferable to use a higher sanding hardness finishing compound such as FinalCote® or LiteFinish™.

**ALL PURPOSE & PATCHING**

USG Boral All Purpose Premix and SHEETROCK® Easy Sand™ 5 & 20 setting type patching compounds are suitable for use as all three coats in the USG Boral 3 coat jointing system. SHEETROCK® Easy Sand™ 5 or 20 is suitable for quick patch ups, maintenance jobs or small renovation work.
### Note 1
- Fire Rated
- Paper tape must be used in fire-rated applications. (e.g. SHEETROCK® Brand Paper Joint Tape).

### Note 2
- Wet Area
- USG Boral base compounds can be used if a waterproofing membrane installed by a specialist contractor and complying with the requirements of AS4858 Wet Area Membranes is applied over the whole face of Wet Area walls. Paper tape must be used in wet area applications. (e.g. SHEETROCK® Brand Paper Joint Tape).

### Note 3
- Paper tape must be used with air-drying type compounds when jointing. (e.g. SHEETROCK® Paper Joint Tape).

### Note 4 - X-Ray
- GIB X-Block® Jointing Compound is specifically designed to give lead equivalent shielding on walls and ceilings when using GIB X-Block® Plasterboard. GIB X-Block® Jointing Compound must be applied to all joints including inner layer joints of 2 or more layer systems. Paper tape must be used for jointing and at least 2 coats of GIB X-Block® Jointing Compound should be applied to prevent penetration of X-Rays at Joints. Joints can be finished with any of the USG Boral premium finishing compounds. GIB X-Block Jointing Compound is an air-drying type compound so ensure each coat has thoroughly dried before applying the next coat.

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### Table: Jointing Range

<table>
<thead>
<tr>
<th>Bedding &amp; Base</th>
<th>Finishing Compounds</th>
<th>Primer</th>
<th>All Purpose</th>
<th>Patching</th>
<th>X-Ray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy Sand® 45</td>
<td>BaseCote® 45</td>
<td>LiteFinish®</td>
<td>All Purpose Premix</td>
<td>Easy Sand® 5</td>
<td></td>
</tr>
<tr>
<td>BaseCote® 60</td>
<td>Redbase® (Premix Base)</td>
<td>FinaCote'</td>
<td>TopCote 550'</td>
<td>Easy Sand® 20</td>
<td></td>
</tr>
<tr>
<td>Total Lite®</td>
<td>Total Lite®</td>
<td>Tuft-Hide® Primer-Surfacers</td>
<td>All Purpose Premix</td>
<td>GIB X-Block Jointing Compound Note 4</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
- IST COAT 2ND COAT FINISHING COAT PRIMER COAT MECHANICAL TOOLS FIRE RATED - WET AREA CURING TYPE WORKING TIMES PRODUCT SIZE SCRAPE BACK SANDING COMPOUND TYPE COLOUR

- **Setting/Powder** Setting/Powder
- **Air-Drying/Ready Mix**
- **2 or 3 Part**
- **Easy Sand**
- **Powder**
- **RediBase**
- **Premix Base**
- **Taping Joint Compound**
- **Total Lite**
- **LiteFinish**
- **FinaCote’**
- **TopCote 550’**
- **Tuft-Hide’ Primer-Surfacers**
- **All Purpose Premix**
- **Easy Sand’ 5**
- **Easy Sand’ 20**

- **Light Yellow**
- **Off-White**
- **Matt White**
- **Brown**

- **180-220 grit**
- **150-180 grit**
- **180 grit**
- **150-180 grit**
- **150-180 grit**
- **150-180 grit**

- **5 or 20 mins**
- **5 or 20 mins**
- **5 or 20 mins**
- **5 or 20 mins**
- **5 or 20 mins**
- **5 or 20 mins**

This technical information is intended to provide general information on plasterboard products and should not be used as a substitute for professional building advice. We recommend you use a qualified person to install USG Boral plasterboard. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website USGBoral.com.
**1.1 BEDDING & BASE JOINT COMPOUNDS - CHEMICALLY SETTING**

**1.1.1 SHEETROCK® EASY SAND™ 45/90**

SHEETROCK® Easy Sand™ is a lightweight setting compound suitable for taping and second coating internal plasterboard joints, angles and spotting fastener heads. Ideal for heavy fills, Easy Sand™ provides low shrinkage and superior bond to paper tape. It is available in 30 and 60 minute working times. Use SHEETROCK® Paper Joint Tape or equivalent to achieve high strength joint.

**1.1.2 BASECOTE™ 45/60/90**

BaseCote™ is a plaster-based, setting-type compound formulated for bedding of plasterboard joints, angles and spotting fastener heads. It is suitable for taping and second coating over SHEETROCK® and FIBEROCK® surfaces and coating externals due to low shrinkage. Available in consistent 45, 60, and 90 minute working times. Use SHEETROCK® Paper Joint Tape or equivalent to achieve high strength joint.

**ADVANTAGES**

- Lightweight formula - approx. 20% lighter than BaseCote™
- Easy application - light creamy gauge suitable for mechanical tool applications
- Low shrinkage
- High bond strength

**1.1.3 REDIBASE™**

RediBase™ is a premixed, drying type base compound formulated for use in hot and dry environments. The use of drying type compounds in hot and dry conditions reduces the risk of premature dry out associated with plaster-based compounds. Paper tape must be used in the recommended 3 coat joint system such as using SHEETROCK® Paper Joint Tape or equivalent.

**ADVANTAGES**

- Drying type compound specially formulated for use in hot and dry environments
- Premixed and ready to use
- Time saving - minimal mixing and cleaning of tools
- Particularly suitable for sites with limited water access

**1.1.4 SHEETROCK® TAPING JOINT COMPOUND**

SHEETROCK® Taping Joint Compound is designed for embedding paper tapes and providing excellent paper tape adhesion. Blended to a creamy and smooth consistency, Taping Joint Compound provides excellent slip and workability making it suitable for use by hand or mechanical tools.

SHEETROCK® Taping Joint Compound is recommended for use in environments where conditions are hot and dry, water access is limited or where mechanical taping tools are used. Paper tape must be used in the recommended 3 coat joint system such as using SHEETROCK® Paper Joint Tape or equivalent.

**ADVANTAGES**

- Available in a ready-mixed formulation
- Provides excellent slip for fast application; as a result, joint finishing is fast, easy, and smooth
- Provides excellent adhesion and superior bond for embedding paper joint tape

**Easy Sand™ Specifications**

<table>
<thead>
<tr>
<th>Colour</th>
<th>White/Off White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>45/90 – 30 min, E390 – 60 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting/Powder</td>
</tr>
<tr>
<td>Packaging</td>
<td>16kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>N/A</td>
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</table>

**BaseCote™ Specifications**

<table>
<thead>
<tr>
<th>Colour</th>
<th>White/Off White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>Available in 45, 60 and 90 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting/Powder</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag, 10kg bag (BC45)</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
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</table>

**RediBase™ Specifications**

<table>
<thead>
<tr>
<th>Colour</th>
<th>White/Off White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>Minimum of hours drying time</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Air-Drying/Ready Mix</td>
</tr>
<tr>
<td>Packaging</td>
<td>16kg re-usable pail</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
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</table>

**Taping Joint Compound Specifications**

<table>
<thead>
<tr>
<th>Colour</th>
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</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>Maximum of hours drying time</td>
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<tr>
<td>Compound Type</td>
<td>Air-Drying/Ready Mix</td>
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<tr>
<td>Packaging</td>
<td>22kg carton</td>
</tr>
<tr>
<td>VOC</td>
<td>N/A</td>
</tr>
</tbody>
</table>
1.2 FINISHING JOINT COMPOUNDS

1.2.1 SHEETROCK® ULTRALIGHTWEIGHT

SHEETROCK® UltraLightweight finishing compound is a lightweight, yellow tinted air-drying type compound specifically designed with the finishing contractor in mind. This compound allows greater control and accuracy with less fatigue at the end of the day. It is designed to be used in conjunction with EasySand™ or BaseCote™ jointing compounds. SHEETROCK® UltraLightweight is up to 25% lighter than TopCote 550® and is one of the easiest sanding finishing compounds in our range.

**ADVANTAGES**
- Suitable for use as a second and finishing coat
- Excellent application slip and workability by hand or mechanical tools
- Low shrinkage
- Easy to sand
- Excellent surface for painting

**UltraLightweight Specifications**
- Colour: Light Yellow
- Working Time: Minimum 24 hours drying time
- Compound Type: Air-Drying/Ready Mix
- Packaging: 17kg re-usable pail
- VOC: Less than 50g per litre

1.2.2 SHEETROCK® TOTAL LITE™

SHEETROCK® Total Lite finishing compound is a yellow tinted, lightweight air-drying compound specifically formulated to provide superior workability, including slick application, good open time, excellent coverage and easy sanding. It is suitable for use in conjunction with Easy Sand™ or BaseCote™ jointing compounds.

**ADVANTAGES**
- Creamy finishing compound suitable for second and finishing coats
- Easy application by hand or with mechanical tools
- Excellent hiding
- Very easy to sand by hand or with mechanical sanding tools
- Smooth finish, excellent surface for painting

**Total Lite™ Specifications**
- Colour: Light Yellow
- Working Time: Minimum 24 hours drying time
- Compound Type: Air-Drying/Ready Mix
- Packaging: 21kg re-usable pail
- VOC: Less than 50g per litre

1.2.3 LITEFINISH™

LiteFinish™ finishing compound is a yellow tinted, lightweight, premixed, air-drying compound formulated to deliver excellent consistency, easy application for increased productivity, low shrinkage and good hiding power. A creamy compound that maintains its body structure, it is suitable for hand tool and mechanical application. For ease of sanding, LiteFinish™ would sit in the middle of our finishing compounds range.

**ADVANTAGES**
- Creamy finishing compound suitable for second and finishing coats
- Easy application by hand or with mechanical tools
- Excellent hiding
- Very easy to sand by hand or with mechanical sanding tools
- Smooth finish, excellent surface for painting

**LiteFinish™ Specifications**
- Colour: Yellow
- Working Time: Minimum 24 hours drying time
- Compound Type: Air-Drying/Ready Mix
- Packaging: 18kg re-usable pail
- VOC: Less than 50g per litre

1.2.4 FINALCOTE®

FinalCote® finishing compound is a premixed, air-drying compound developed for use as the ideal finishing coat for all plasterboard joints, angles and fastener heads. Designed to be used in conjunction with any of our base or all-purpose compounds. FinalCote® is an easier sanding product than our TopCote 550®.

**ADVANTAGES**
- Semi-lightweight finishing compound
- Easy application by hand or with mechanical tools
- Very easy to sand by hand or with mechanical sanding tools
- Smooth finish, excellent surface for painting

**FinalCote® Specifications**
- Colour: White
- Working Time: Minimum 24 hours drying time
- Compound Type: Air-Drying/Ready Mix
- Packaging: 20kg re-usable pail
- VOC: Less than 50g per litre

1.2.5 TOPCOTE 550®

TopCote 550® is an economical finishing compound suitable for contractors who prefer a harder sanding finishing compound ideal for mechanical sanding. It has been developed for use as a finishing coat over plasterboard joints, angles and fastener heads and can be used in conjunction with any USG Boral base or all-purpose compounds. TopCote 550® is the hardest sanding finishing compound in our range.

**ADVANTAGES**
- Economical grade, standard weight finishing compound
- Easy application by hand or with mechanical tools
- Excellent for mechanical tool sanding
- Smooth finish, excellent surface for painting

**TopCote 550® Specifications**
- Colour: White
- Working Time: Minimum 24 hours drying time
- Compound Type: Air-Drying/Ready Mix
- Packaging: 20kg re-usable pail
- VOC: Less than 50g per litre
1.3 ALL PURPOSE COMPOUNDS

1.3.1 ALL PURPOSE PREMIX

All Purpose Premix compound (formerly LiteCote™) is an economical, air-drying, lightweight compound suitable for all three coat applications or as a finishing coat for all plasterboard joints, angles and fastener heads. Paper tape must be used in the recommended 3 coat joint system such as using SHEETROCK® Paper Joint Tape or equivalent.

1.4 PRIMERS

1.4.1 TUFF-HIDE™ LEVEL 5 PRIMER-SURFACER

USG Boral SHEETROCK® Tuff-Hide™ Level 5 Primer Surfacer is a dual-purpose vinyl, acrylic latex-based coating designed especially for interior application over new plasterboard including SHEETROCK® and FIBEROCK® surfaces. Prior to Tuff-Hide™ application, the default minimum surface finish would be Level 4 as per AS/NZS 2589:2007 Gypsum linings – applications and finishing. Tuff-Hide™ may be tinted with up to 15ml per litre of universal colors, and is recommended for use under deep tone paint colours. Paint after overnight drying. It is strongly recommended to apply a good quality sealer followed by a minimum of two coats of quality paint in accordance with the paint manufacturer’s recommendations. For normal applications, standard paints can be used over Tuff-Hide™. For areas requiring greater durability and toughness, waterborne enamel is recommended as the finishing coat.

Formulated primarily for plasterboard application, Tuff-Hide™ can also be applied to other surfaces such as concrete, plaster, fibre cement, dressed timber and MDF.

ADVANTAGES
- Semi-lightweight all-purpose or finishing compound
- May be used for all 3 coats or as a finishing coat
- Excellent workability, easy application by hand or with mechanical tools
- Minimal mixing and cleaning of tools
- Can be sanded by hand or with mechanical sanding tools
- Excellent surface for painting

<table>
<thead>
<tr>
<th>All Purpose Premix Specifications</th>
<th>Tuff-Hide™ Level 5 Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Working Time</td>
<td>Minimum 24 hours drying time</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Air-Drying/Readymix</td>
</tr>
<tr>
<td>Packaging</td>
<td>18.9L/30kg re-sealable pail</td>
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<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

1.5 PATCHING COMPOUNDS

1.5.1 EASY SAND™ 5/20

SHEETROCK® Easy Sand™ 5 and 20 patching/joint compounds are chemically setting type compounds suitable for plasterboard interiors that permit same-day joint finishing and, typically, next-day decoration. Easy Sand™ 5 and 20 are both suitable for all three coat applications with easy sand for fast, smooth finishing.

SHEETROCK® Easy Sand™ 5 has a working time of approximately 8-12 minutes for patching applications requiring faster setting. Choose Easy Sand™ 20 for a longer working time of approximately 25 minutes.

ADVANTAGES
- Quick set
- Mixes easily to a creamy gauge
- Low shrinkage
- Can be polished when near set
- Lightly sand when dry to achieve a smooth finish
- Can be coated by USG Boral finishing compounds

<table>
<thead>
<tr>
<th>Easy Sand™ 5/20 Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Working Time</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Compound Type</td>
</tr>
<tr>
<td>Packaging</td>
</tr>
<tr>
<td>VOC</td>
</tr>
</tbody>
</table>

1.6 X-RAY

1.6.1 X-BLOCK® JOINT COMPOUND

GIB X-Block® Jointing Compound is specifically formulated for use with GIB X-Block® plasterboard to give lead equivalent joints on interior walls and ceilings.

It is a powdered air-drying compound suitable for bedding of X-Block plasterboard joints, angles, spotting fastener heads and filling in gaps to provide a uniform X-ray radiation barrier. Paper tape must be used for all jointing.

ADVANTAGES
- Eliminates the use of lead strips in backing joints
- Provides lead equivalent joints on internal walls and ceilings
- High strength joint with paper tape
- Compatible with USG Boral finishing compounds
- Identifiable by brown colour

<table>
<thead>
<tr>
<th>GIB X-Block® Jointing Compound Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Working Time</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Compound Type</td>
</tr>
<tr>
<td>Packaging</td>
</tr>
<tr>
<td>VOC</td>
</tr>
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</table>
2.0 ADHESIVES & SPECIALTY PLASTERS

USG Boral offers a range of plaster-based adhesives suitable for installing cornices, bonding plasterboard to masonry surfaces and for back-blocking ceiling and wall joints. USG Boral also supplies a water-based stud adhesive for bonding plasterboard to timber and metal studs.

For specialty plasters, USG Boral offers a range of enhanced formula products ideal for applications from plaster craft replications, casting of moulds for dental and ceramic products, to skim compounds designed to provide a tough smooth surface over masonry.
2.0 ADHESIVES AND SPECIALTY PLASTERS RANGE

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>SUITABLE FOR</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>For bonding paper-faced and plaster cornices to plasterboard surfaces and reinforcing cornice points.</td>
</tr>
<tr>
<td>BONDDING</td>
<td>✓</td>
</tr>
<tr>
<td>PATCHING</td>
<td>✓</td>
</tr>
<tr>
<td>SKIM COAT</td>
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<tr>
<td>PLASTER MOULDS</td>
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</table>

<table>
<thead>
<tr>
<th>COMPOUND TYPE</th>
<th>WORKING TIMES</th>
<th>PRODUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40 or 60 mins</td>
<td>20kg bag</td>
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<tr>
<td></td>
<td>120 mins</td>
<td>20kg bag</td>
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<tr>
<td></td>
<td>65 mins</td>
<td>20kg bag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.2kg/4L pail</td>
</tr>
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</table>

**Plaster-Based Adhesive**
- Cornice Adhesive 45
- Cornice Adhesive 60
- Back-Blocking Adhesive
- Masonry Adhesive
- PremiumBond™ Stud Adhesive

**Acrylic Adhesive**
- Cornice Adhesive 45
- Cornice Adhesive 60
- Back-Blocking Adhesive
- Masonry Adhesive
- PremiumBond™ Stud Adhesive

**Skim Compounds**
- HardFinish & HardFinish WA
- Diamond® Veneer Finish

**Specialty Plasters**
- Casting Plaster
- Ceraplast™
- Dental Plaster
- Pottery Plaster

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The table above shows the suitability of each product for bonding, patching, skim coating, and plaster moulds. The working times and product sizes are also listed to help with selection.

- **Cornice Adhesive 45** can be used for bonding paper-faced and plaster cornices to plasterboard surfaces, as well as reinforcing cornice points. It is suitable for setting in 40 or 60 minutes, and comes in a 20kg bag.
- **Cornice Adhesive 60** is similar to 45 but setting takes 120 minutes and is available in a 20kg bag.
- **Back-Blocking Adhesive** is ideal for applying and adhering back blocks on ceilings and walls. It sets in 65 minutes and is available in a 20kg bag.
- **Masonry Adhesive** is designed for bonding plasterboard sheets to masonry surfaces. It sets in 65 minutes and is available in a 5.2kg/4L pail.
- **PremiumBond™ Stud Adhesive** is suitable for bonding plasterboard to timber and metal framing. It sets in 40 or 60 minutes and is available in a 20kg bag.

**Skim Compounds**
- **HardFinish & HardFinish WA** is a skim coat plaster designed for use with lime to achieve a hard white surface on internal walls and ceilings. It sets in 35 mins or 70 mins (WA) and comes in a 20kg bag.
- **Diamond® Veneer Finish** is suitable for producing plaster craft replications. It sets in 25 mins and is available in a 20kg bag.

**Specialty Plasters**
- **Casting Plaster** is used for producing working or slipmoulds for ceramic products and sanitary wares. It sets in 20 mins and comes in a 20kg bag.
- **Ceraplast™** is fine specialist plaster used in slip moulds for ceramic pieces, plaster models, and craft replicas. It sets in 5 mins and comes in a 20kg bag.
- **Dental Plaster** is used for flashing and mounting dental models. It sets in 10 mins and is available in a 20kg bag.
- **Pottery Plaster** is fine specialist plaster used in slip moulds for ceramic pieces, plaster models, and craft replicas. It sets in 5 mins and is available in a 20kg bag.

Select the appropriate product based on the specific application and working conditions.
2.1 ADHESIVES & BONDING COMPOUNDS

2.1.1 BACK-BLOCKING ADHESIVE

2.1.2 CORNICE ADHESIVE 45/60
Cornice Adhesive is a plaster-based adhesive formulated for bonding paperfaced and plaster cornices to plasterboard surfaces and reinforcing joints in cornices. It can also be used for bonding other plaster decorative products, bonding back-blocks to plasterboard joints, laminating plasterboard sheets and caulking gaps in fire-rated wall constructions.

2.1.3 MASONRY ADHESIVE
Masonry Adhesive is a plaster-based adhesive formulated for bond plasterboard sheets to masonry, brick or concrete walls. Masonry Adhesive has high bond strength, offers a long setting time and is suitable for bonding to difficult surfaces.

2.1.4 PREMIUM BOND™ STUD ADHESIVE
Premium Bond™ Stud Adhesive is a water-based synthetic stud adhesive used for bonding plasterboard to timber and metal studs for wall and ceiling linings. Its buttery consistency is designed for easy no slump application, fast grab and maximum adhesive transfer. It is suitable for a wide range of climates.

2.2 WET AREA COMPOUNDS

2.2.1 WET AREA SEALANT
USG Boral Wet Area Sealant is an acrylic water-resistant sealant. The sealant remains flexible and is capable of total joint movement of 10%.

**ADVANTAGES**
- Long working time
- Mixes easily to a creamy, lump-free gauge
- Excellent wet tack
- Excellent adhesion and water retention
- Yellow pigmented

**ADVANTAGES**
- Mixes easily to a creamy, lump-free gauge
- Excellent wet tack
- High adhesion and high strength
- Readily accelerated for polishing of cornice joints

**ADVANTAGES**
- Mixes easily to a creamy, lump-free gauge
- Excellent wet tack
- High adhesion and high strength
- Readily accelerated for polishing of cornice joints

**ADVANTAGES**
- Easy to use
- Rapid tack
- Tough bond
- Flexible
- Water resistant
- Easy to apply

**Back-Blocking Adhesive Specification**
- Colour: White
- Working time: 150 min
- Compound Type: Setting
- Packaging: 20kg bag
- VOC: Less than 50g per litre

**Cornice Adhesive Specification**
- Colour: White
- Working time: Available in 45 and 60 min
- Compound Type: Setting
- Packaging: 20kg bag, 10kg bag (45/60)
- VOC: Less than 50g per litre

**Masonry Adhesive Specification**
- Colour: Light Yellow
- Working time: Minimum 24 hours drying time or longer in adverse climatic conditions
- Compound Type: Air-Drying
- Packaging: 1.9kg, 4L, 10L
- VOC: Less than 50g per litre

**Premium Bond™ Stud Adhesive Specification**
- Colour: Green
- Working time: Minimum 24 hours drying time or longer in adverse climatic conditions
- Compound Type: Air-drying
- Packaging: 5.2kg/ 4L pail
- VOC: Less than 50g per litre
2.3 SPECIALTY PLASTERS

2.3.1 CASTING PLASTER
Casting Plaster is a general purpose plaster developed and manufactured for use in the production of plaster craft replications. Casting Plaster provides reproductions that are of medium hardness, making it suitable for carving and turning.

2.3.2 CERAPLAST™ PLASTER
Ceraplast™ is a plaster required for the casting of moulds for ceramic products and plastercraft replications.

2.3.3 DENTAL PLASTER
Dental Plaster is used mainly for flashing and mounting dental models. It can be mixed with a harder dental stone to adjust setting time and increase in strength.

2.3.4 POTTERY PLASTER
Pottery Plaster is a fine specialist plaster designed for use in the casting of moulds for ceramic products and plastercraft replications. It is ideal for slip casting of statuary and sanitary ware, and for manufacturing compression moulds used in slab casting of tableware.

2.4 SKIM COMPOUNDS

2.4.1 HARDFINISH PLASTER
HardFinish Plaster is a general purpose product designed to provide a tough smooth abrasive-resistant finish over masonry, brick, concrete or rendered surfaces.

2.4.2 DIAMOND® VENEER FINISH
A veneer finish designed to give economical walls and ceilings a strong, hard surface that resists abrasion and surface cracking. Diamond® Veneer Finish is perfect for light commercial and residential construction. Diamond® Veneer Finish dries in as little as 24 hours and finishes smoothly.

ADVANTAGES

• Medium hardness
• General purpose plaster

Casting Plaster Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>20 min or 70 min (WA)</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

Ceraplast™ Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>20 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

Dental Plaster Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
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</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>5 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

Pottery Plaster Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>10 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

ADVANTAGES

• Easy to apply
• Smooth blemish-free surface
• Controlled set
• Low maintenance surface – tough abrasive resistant
• Excellent surface for decorating with paint or wallpaper

• High strength
• Suitable for compression moulds

HardFinish Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>30 min or 70 min (WA)</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>20kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>Less than 50g per litre</td>
</tr>
</tbody>
</table>

Diamond® Veneer Finish Specification

<table>
<thead>
<tr>
<th>Colour</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Time</td>
<td>70 min</td>
</tr>
<tr>
<td>Compound Type</td>
<td>Setting</td>
</tr>
<tr>
<td>Packaging</td>
<td>22kg bag</td>
</tr>
<tr>
<td>VOC</td>
<td>N/A</td>
</tr>
</tbody>
</table>
3.0 JOINT SYSTEMS

USG Boral strongly recommends the use of the 3 coat jointing system using paper tape to achieve the best joint strength.

Where mesh or fibreglass tape is to be used, the joints must be reinforced by back-blocking as per AS/NZS 2589.2007 Gypsum linings - applications and finishing. Paper jointing tape must be used in wet area and fire-rated applications and with air-drying type joint compounds.
3.1 SETTING COMPOUNDS

Setting compounds are plaster-based products and develop strength by chemically setting. They can be applied with either hand or mechanical tools and generally provide a stronger joint than air-drying compounds.

**DO**
- Always use clean water, tools and containers
- Do not mix with residues of previously used compounds
- Always add powder to water, based on the mixing ratio
- Mix only enough product to meet your needs
- Mix by hand or with a power mixer
- Mix only enough product to meet the application
- Always add powder to water, based on the mixing ratio
- Always use clean water, tools and containers

**AVOID**
- Application of plaster-based setting compounds over premixed air-drying type compounds is not recommended
- On hot, windy days, where the risk of early dry-out exists, the use of air-drying tapping compounds is recommended
- Under cold or wet conditions allow a longer dry time before applying the next coat

3.2 AIR-DRYING COMPOUNDS

Air-drying compounds are vinyl-based premixed compounds that achieve strength by drying and hardening. May require 24 hours drying time between coats depending on weather conditions.

**DO**
- Surfaces must be clean and free from dust
- Air-drying compounds may have a high viscosity in the past, it may be diluted to a workable viscosity by adding water followed by mechanical mixing
- Allow previous coat to dry thoroughly before applying the next coat

**AVOID**
- The application of air-drying type compounds at interior temperatures less than 10°C is not recommended. Under cold or wet weather conditions, allow more than 24 hours for thorough drying
- When diluting ready-mix compounds, do not vigorously over mix as this will introduce entrapped air which can result in surface imperfections
- Do not air-drying compounds over joints that are not thoroughly dry.
- Paper tape is recommended by USG Boral for jointing of gypsum wall and ceiling linings due to its high strength and suitability for all jointing compounds and applications.

3.3 JOINTING TAPES

Jointing tapes are used to provide reinforcement to plasterboard joints and angles. USG Boral SHEETROCK® paper tape is a high strength special cross-fibre paper tape possessing exceptional wet strength and resisting stretching, wrinkling and tearing.

A wafer thin paper aids smooth finishing and the roughened surface produces a superior bond to jointing compounds. It is creased along the centre for application to angles. Paper tape is recommended by USG Boral for jointing of gypsum wall and ceiling linings due to its high strength and suitability for all jointing compounds and applications.

3.4 JOINTING SYSTEM

Jointing and finishing of plasterboard (SHEETROCK®) and gypsum panel (FIBEROCK®) should be carried out according to the required level of finish (refer to Section 4.0).

If no level is specified then Level 4 is the default level of finish for domestic construction. It requires all joints and internal angles to be taped and coated and in accordance with USG Boral’s recommended three coat jointing system.

- Bed the paper jointing tape into an initial coat of taping, base or all-purpose compound
- Apply a second coat of base or all-purpose compound to fill and level joints
- Apply a coat of finishing or all-purpose compound

The joint compound should be finished smooth and be free of tool marks and ridges.

**NOTE:** application of plaster-based setting compounds over premixed air-drying type compounds is not recommended as this may affect joint performance.

Internal angles are to be completed with a two-coat application using paper tape:

- Bed paper jointing tape into an initial coat of taping, base or all-purpose compound
- Apply a coat of finishing or all-purpose compound

**Extremes care must be taken in jointing and finishing where walls and ceilings are subject to critical lighting.**

3.5 COVERAGE

Approximate coverage of USG Boral joint compounds in kilograms per 100sqm of USG Boral plasterboard including SHEETROCK®.

<table>
<thead>
<tr>
<th>FIXING: Stud Adhesive</th>
<th>FRAMING SPAN</th>
<th>APPROX. COVERAGE RATES*</th>
<th>PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>STUD &amp; ALL PURPOSE</td>
<td>600mm</td>
<td>4.0kg</td>
<td>PremiumBond™ Stud Adhesive</td>
</tr>
<tr>
<td>STUD &amp; ALL PURPOSE</td>
<td>1200mm</td>
<td>2.0kg</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JOINT</th>
<th>APPROX. COVERAGE RATES*</th>
<th>PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base &amp; Bedding (1st &amp; 2nd Coats) including angles</td>
<td>16kg to 22kg</td>
<td>Easy Sand™, BaseCote®, RediBase® &amp; Taping Joint Compound</td>
</tr>
<tr>
<td>Finish Coat only</td>
<td>8kg to 10kg</td>
<td>Ultralightweight Total Lite®, LiteFinish®, FinalCote®, TopCote 550® &amp; All Purpose Premix</td>
</tr>
</tbody>
</table>

*Based on horizontal sheeting. The coverage rates are approximate quantities and should be used as a guide only. The figures may vary significantly due to onsite application practices and environmental factors.

**NOTE:** application of plaster-based setting compounds over premixed air-drying type compounds is not recommended as this may affect joint performance.
The term ‘level of finish’ applies to plasterboard linings prior to decoration. AS/NZS 2589:2007 Gypsum linings — application and finishing defines three levels of finish: 3, 4 and 5. Level 4 is the default level of finish for plasterboard linings, unless specified otherwise.

It is essential that the level of finish is determined at the design stage since each level has specific requirements for substrate tolerances and plasterboard installation, jointing and finishing. The desired level of finish may not be achieved unless all of these requirements are met through various stages of construction.

Levels of finish recommended for various lighting conditions and surface decorations are shown in Figure 1. For the full description of levels of finish refer to AS/NZS 2589:2007 Gypsum linings — applications and finishing. A summary of various levels of finish is provided below:

**LEVEL 3**
This level of finish is used in areas that do not require decoration, or where finish is not important (for example, above ceiling level or inside service shafts). All joints and interior angles must have tape embedded in the joint compound and one separate coat of joint compound applied over all joints and fastener heads. Butt joints and recessed joints in walls and ceilings can be placed on framing members.

**LEVEL 4**
This is the default and generally accepted level of plasterboard finish. All joints and interior angles must have tape embedded in the jointing compound and a minimum of two separate coats of joint compound applied over all joints, angles, fastener heads and accessories.

Butt joints in walls and ceilings must be between framing members and in certain cases back-blocked. Recessed joints in the ceilings must be back-blocked in any area containing three or more recessed joints.

If Level 4 surface is to be exposed to critical light, it should be covered with textured finishes such as SHEETROCK® Tuff-Hide™ Primer-Surfacerg or wall coverings. Smooth textured finishes and flat/matt or low-sheen paints can be used when Level 4 Finish is illuminated by non-critical lighting. Flat paints in this situation tend to conceal joints better. Weight, texture and sheen level of wall coverings and finishes should be carefully evaluated and joints should be adequately concealed if wall-covering material is lightweight, glossy or lightly patterned.

**NOTES:**
- In critical lighting conditions, surface variations may still be apparent in a Level 4 surface finish
- Gloss, semi-gloss or deep tone paints are not recommended for Level 4 finish, as they accentuate surface variations

**LEVEL 5**
Level 5 finish should be used where gloss or semi-gloss paints are specified or where lining surfaces will be exposed to critical lighting conditions. The Level 5 Finish is characterised by a uniformity of surface texture and porosity. All joints and interior angles must have tape embedded in the jointing compound and a minimum of two separate coats of joint compound applied over all joints, angles, fastener heads and accessories.

Butt joints in walls and ceilings must be located between framing members and back-blocked. Recessed joints in the ceilings must also be back-blocked. The work is finished with proprietary surface preparations or skim coating to remove differential surface textures and porosity.

A suitable paint or plaster material (e.g. USG Boral SHEETROCK® Tuff-Hide™ primer surfacer or Diamond® Veneer Finish) is sprayed, rolled or trowelled over the defined area. The surface texture must be random and monolithic, concealing joints and fixing points.

**NOTES:**
- If Level 5 finish is desired for a decorated plasterboard surface, this must be specified at the design stage
- Level 5 Finish is difficult to achieve and always requires the cooperation of the framer, plasterer and painter in establishing suitable work practices that deliver the agreed painted finish for the given project
- Some minor surface variations may still be visible in Level 5 finish, however, these will be minimised
- The surface of the defined area may require sanding to be suitable for decoration

Maximum deviations in the bearing surface of the finished framing prior to the installation of plasterboard linings are as follows:

<table>
<thead>
<tr>
<th>Framing Area</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% of Area</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Remaining area</td>
<td>5</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

* Deviation at any point of the bearing surface of the finished framing when measured with 1.8m straight edge (refer AS/NZS 2589:2007 Gypsum linings — applications and finishing).

---

**Figure 1**

- **WHAT IS THE FINAL DECORATION?**
  - **FINISH NOT IMPORTANT OR IS UNDERCOVER**
  - **WALL COVERING, WALLPAPER OR TEXTURE**
  - **FLAT, MATT, SATIN OR LOW-SHEEN PAINT**
  - **SEMI-GLOSS OR GLOSS PAINT**

- **PAINT**
  - **PASTEL OR MID-TONES**
  - **DARK TONES**

- **LEVEL 3 FINISH**
  - **CRITICAL AND NON-CRITICAL LIGHTING**
  - **NON-CRITICAL LIGHTING**

- **LEVEL 4 FINISH**
  - **CRITICAL LIGHTING**

- **LEVEL 5 FINISH**
  - **CRITICAL AND NON-CRITICAL LIGHTING**
PRODUCT INFORMATION
See USGBoral.com for the most up-to-date product information.

SALES ENQUIRIES
1800 003 377

TECHNICAL ASSISTANCE
TecASSIST™ 1800 811 222

NOTE
Products described here may not be available in all geographic markets. Consult your USG Boral sales office or representative for information.

This Technical Information Guide is intended to provide general information and should not be used as a substitute for professional advice. There are many variables that can influence construction projects which affect whether a particular construction technique is appropriate. Before proceeding with any project we recommend you obtain professional advice to ascertain the appropriate construction techniques to suit the particular circumstances of your project having regard to the contents of this catalogue.

We recommend you use qualified tradespersons to install this system. The technical information contained in this catalogue was correct at the time of printing. Building systems, details and product availability are, however, subject to change. To ensure the information you are using is current, USG Boral recommends you review the latest building information available on the USG Boral website. For further information contact TecASSIST™ or your nearest USG Boral Sales Office.