Construction Grouts
BOSTIK, SMART ADHESIVES.
Bostik is a leading, global adhesive specialist in multiple markets. With the new brand, Bostik Smart Adhesives, we enhance our common identity with global consistency.

“Smart Adhesives” reflects our positioning on developing intelligent and innovative adhesive solutions that are more functional and efficient.

THE GECKO – INSPIRATIONAL ADHESION.
For centuries, scientists have been intrigued by geckos that have evolved one of the most effective adhesives known to man. They can cling to almost any surface, run up polished glass at a meter per second and easily support their entire body weight with a single toe.

The Bostik gecko is flexible, adaptive, open-minded and bold. It symbolizes Bostik’s smart adhesive solutions that meet market challenges to create new business opportunities in future adhesives.
A COMPREHENSIVE SUITE OF CONSTRUCTION GROUITS

Bostik Australia is focused on offering an extensive range of cementitious products, designed specifically to address the advancements in practices throughout the civil and construction markets.

Bostik offers multi-purpose non-shrink grouts, for structural and non-structural applications, including precision grouting, base plates, precast components, machinery and equipment bases, anchor bolts, concrete repair, keyway joints, load bearing pads and other non-shrink applications.

A high-quality blend of portland cement and non-shrink additives mixed with water produces a durable, high-strength material useful for grouting and general concrete applications on both indoor and outdoor projects.

- Class A Construction Grouts
- Class C Construction Grouts
- Concrete Repair
INNOVATIVE NEW PRODUCTS TO PRESERVE THE ENVIRONMENT
Bostik is committed to offering innovative product solutions which contribute to sustainable development in construction. This is achieved through continuously developing greener products and packaging. Bostik anticipates and exceeds the needs of its customers while minimising environmental impacts.

PROMOTING PRODUCT STEWARDSHIP
Right from the research stage, Bostik integrates health, safety and environmental criteria into each new product development. As a signatory to the National Packaging Covenant, Bostik is firmly committed to reducing the environmental impact of packaging. Further down the line, Bostik applies the same degree of rigour to labeling, preparation of safety documents (safety data sheets). This ensures optimum conditions for the storage, shipment and use of its products. Our relationship with our customers includes technical assistance aimed at optimising the use of our products for the greater protection of people and the environment.

REDUCED IMPACT OF COMPANY ACTIVITIES ON THE ENVIRONMENT
All Bostik production sites monitor the characteristics of emissions and waste rigorously and systematically. Performance indicators provide a regular assessment of the environmental performance. Action plans are continuously updated and implemented to reduce the impact on the environment.

PROMOTING ENVIRONMENTAL MANAGEMENT
Systems are in place to manage Bostik’s ISO 9001 safety and quality performan systems are based on a continuous improvement process.

LOCAL AUTHORITY
The Green Building Council of Australia developed the Green Star environmental rating system for building and construction. A growing number of projects are adopting these green building processes to promote a healthier environment, minimise global impacts and improve the satisfaction and living environments of the population. Builders, re-modelers, engineers, product manufactures, architects and consumers alike are using these guidelines to create new approaches to construction and remodeling projects that will benefit today and the world tomorrow.
QR Codes

Scan the Bostik QR Code on relevant packaging using your smartphone, and get direct access to technical and safety data sheets...

Information available everywhere, any time...

Smart digital
Visit the new bostik.com and discover more!
Pictograms

Pictograms are symbols that contain application related information that outlines the features and benefits of the product. Pictograms can be found in catalogues and packaging.

Easy to Mix

Water Ratio 3.0–4.4L 20Kg Bag

Max Thickness 120mm

Compressive Strength 40–85Mpa

Set Time 3.5–8 Hours

Compressive Strength 50–70MPa

Set Time 50–60 mins

Water Ratio 2.2–2.8/ 20Kg Bag

Low Permeability

Compressive Strength 70–95MPa

Max Thickness 140mm

Set Time 30–60 mins

Max Thickness 90mm

Drying Time 3.5–7Hrs

Max Thickness 100mm

Water Ratio 3.1–3.5L/20Kg Bag

Interior & Exterior
Cementitious Grouts

Cementitious Products

Advances in construction techniques are ongoing. In recent years, many have only become possible through corresponding developments in cementitious product design. Today’s use of cementitious products in building, construction and mining is significant and in some cases has reached the point where much of the product is an important structural component of the building.

Construction Grouts

Bostik cementitious grouts are examples of how formulated products offer specific qualities to the construction industry. The core range comprises of Class A and Class C products, engineered to suit the predominate end use applications in construction. Complementing the core products, a range of specialty grouts has been designed to satisfy specific project or industry needs.

Site: Port Botany
Builder: Baulderstone
Product: Techflow Grout GP and Flowfill Grout UW
Volume: 106 Tonnes
Grout Classification

Cement has a natural tendency to shrink during curing. Cementitious grouts have the potential to shrink more than concrete. This is because there is far less aggregate (filler) and correspondingly much more cement paste. There are two common forms of shrinkage:

- Early age shrinkage (also called plastic shrinkage) is predominately due to water evaporating from the matrix
- Post hardening shrinkage (also called drying shrinkage) is a result of ongoing chemical reactions and hardening

Class A grouts: (also referred to as General Purpose) are non-shrink during the plastic state

Class C grouts: (also known as Performance Grouts) are shrinkage compensated (non-shrink) during both the plastic and post hardened state

Specification & Technical Support

Project success often lies in the correct specification and design of products. Bostik offers a complete technical services package via the technical and specifications services. Whether it be systems application, specification documentation or on site assistance, Bostik’s technical team will ensure the required support is available at every stage.
### Grouts Mechanical Properties

#### Flowfill Grout UW
Non-shrink (Class A) cementitious grout for marine and underwater applications. Application thickness of 20mm – 150mm.

#### Techflow Grout HS
High performance, high strength, non-rapid setting, non-shrink (Class C) cementitious grout. Application thickness of 10mm – 140mm.

<table>
<thead>
<tr>
<th>Product</th>
<th>Flowfill Grout GP</th>
<th>Flowfill Panel Grout</th>
<th>Techflow Grout GP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>General purpose, non-shrink (Class A) cementitious grout ideal for most void filling grouting jobs</td>
<td>General purpose non-shrink (Class A) cementitious grout with enhanced working life.</td>
<td>High performance, non-shrink (Class C) cementitious grout.</td>
</tr>
<tr>
<td>Application Thickness</td>
<td>20mm – 120mm</td>
<td>20mm – 120mm</td>
<td>10mm – 140mm</td>
</tr>
<tr>
<td>Set Time</td>
<td>Consistency</td>
<td>Initial Set</td>
<td>Final Set</td>
</tr>
<tr>
<td>Time For Expansion</td>
<td>Stiff</td>
<td>Plastic</td>
<td>Flowable</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>15 Mins</td>
<td>2 – 3 Hrs</td>
<td>15 Mins</td>
</tr>
<tr>
<td>Coverage (Litres per 20kg bag)</td>
<td>3 L</td>
<td>4.4 L</td>
<td>3 L</td>
</tr>
<tr>
<td>Fresh Wet Density (kg/m³)</td>
<td>40 – 75</td>
<td>60 – 85</td>
<td>40 – 75</td>
</tr>
<tr>
<td>Bags required per cubic metre</td>
<td>20kg</td>
<td>20kg</td>
<td>20kg</td>
</tr>
</tbody>
</table>

#### Notes:
- Consistency is in accordance to ASTM C1107/C1107-11 and AS 1478.2-2005 table 4.1.2.2
- Set time – tested in accordance to ASTM C191-08
- Time for expansion – tested in accordance to ASTM C940-98a (reapproved 2003)
- Compressive strength – tested in accordance to AS/NZS 2350.11
Techflow LA Grout
High performance, high flow (Class C) cementitious grout designed for large application thicknesses. Application range of 10mm – 400mm.

<table>
<thead>
<tr>
<th>Techflow Grout HES</th>
<th>Flowfill Grout UW</th>
<th>Techflow Grout HS</th>
<th>Techflow LA Grout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High performance, high strength, rapid setting, non-shrink (Class C) cementitious grout.</strong></td>
<td><strong>Non-shrink (Class A) cementitious grout for marine and underwater applications.</strong></td>
<td><strong>High performance, high strength, non-rapid setting, non-shrink (Class C) cementitious grout.</strong></td>
<td><strong>High performance, high flow (Class C) cementitious grout designed for large application thicknesses.</strong></td>
</tr>
<tr>
<td><strong>20mm – 150mm</strong></td>
<td><strong>20mm – 100mm</strong></td>
<td><strong>10mm – 140mm</strong></td>
<td><strong>10mm – 400mm</strong></td>
</tr>
<tr>
<td><strong>Consistency</strong></td>
<td><strong>Consistency</strong></td>
<td><strong>Consistency</strong></td>
<td><strong>Consistency</strong></td>
</tr>
<tr>
<td><strong>Initial Set</strong></td>
<td><strong>Initial Set</strong></td>
<td><strong>Initial Set</strong></td>
<td><strong>Initial Set</strong></td>
</tr>
<tr>
<td><strong>Final Set</strong></td>
<td><strong>Final Set</strong></td>
<td><strong>Final Set</strong></td>
<td><strong>Final Set</strong></td>
</tr>
<tr>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
</tr>
<tr>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
</tr>
<tr>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
</tr>
<tr>
<td><strong>MPa</strong></td>
<td><strong>MPa</strong></td>
<td><strong>MPa</strong></td>
<td><strong>MPa</strong></td>
</tr>
<tr>
<td><strong>Water Addition</strong></td>
<td><strong>Water Addition</strong></td>
<td><strong>Water Addition</strong></td>
<td><strong>Water Addition</strong></td>
</tr>
<tr>
<td><strong>(Litres)</strong></td>
<td><strong>(Litres)</strong></td>
<td><strong>(Litres)</strong></td>
<td><strong>(Litres)</strong></td>
</tr>
<tr>
<td><strong>2 Hours</strong></td>
<td><strong>15 - 30 Mins</strong></td>
<td><strong>15 - 30 Mins</strong></td>
<td><strong>&lt;10 Mins</strong></td>
</tr>
<tr>
<td><strong>4 Hours</strong></td>
<td><strong>2 - 4 Hrs</strong></td>
<td><strong>2 - 4 Hrs</strong></td>
<td><strong>&lt;20 Mins</strong></td>
</tr>
<tr>
<td><strong>1 Day</strong></td>
<td><strong>5.5 Hrs</strong></td>
<td><strong>5.5 Hrs</strong></td>
<td><strong>15 Mins</strong></td>
</tr>
<tr>
<td><strong>28 Days</strong></td>
<td><strong>28 Days</strong></td>
<td><strong>28 Days</strong></td>
<td><strong>&lt;5 Mins</strong></td>
</tr>
<tr>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
<td><strong>Stiff</strong></td>
</tr>
<tr>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
<td><strong>Plastic</strong></td>
</tr>
<tr>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
<td><strong>Flowable</strong></td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
<td><strong>Fluid</strong></td>
</tr>
<tr>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
</tr>
<tr>
<td><strong>2.5 L</strong></td>
<td><strong>4.0 L</strong></td>
<td><strong>3.8 L</strong></td>
<td><strong>3.8 L</strong></td>
</tr>
<tr>
<td><strong>2.8 L</strong></td>
<td><strong>2.8 L</strong></td>
<td><strong>3.6 L</strong></td>
<td><strong>4.0 L</strong></td>
</tr>
<tr>
<td><strong>20</strong></td>
<td><strong>20</strong></td>
<td><strong>3.3 L</strong></td>
<td><strong>3.0 L</strong></td>
</tr>
<tr>
<td><strong>25</strong></td>
<td><strong>25</strong></td>
<td><strong>3.6 L</strong></td>
<td><strong>4.0 L</strong></td>
</tr>
<tr>
<td><strong>20</strong></td>
<td><strong>20</strong></td>
<td><strong>3.8 L</strong></td>
<td><strong>3.8 L</strong></td>
</tr>
<tr>
<td><strong>25</strong></td>
<td><strong>25</strong></td>
<td><strong>3.8 L</strong></td>
<td><strong>3.8 L</strong></td>
</tr>
<tr>
<td><strong>20</strong></td>
<td><strong>20</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
</tr>
<tr>
<td><strong>50</strong></td>
<td><strong>50</strong></td>
<td><strong>55</strong></td>
<td><strong>55</strong></td>
</tr>
<tr>
<td><strong>50</strong></td>
<td><strong>50</strong></td>
<td><strong>60</strong></td>
<td><strong>60</strong></td>
</tr>
<tr>
<td><strong>70</strong></td>
<td><strong>70</strong></td>
<td><strong>60</strong></td>
<td><strong>60</strong></td>
</tr>
<tr>
<td><strong>60</strong></td>
<td><strong>60</strong></td>
<td><strong>70</strong></td>
<td><strong>70</strong></td>
</tr>
<tr>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
</tr>
<tr>
<td><strong>10.5 L</strong></td>
<td><strong>11.0</strong></td>
<td><strong>10.5</strong></td>
<td><strong>10.5</strong></td>
</tr>
<tr>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
<td><strong>Yield (Litres)</strong></td>
</tr>
<tr>
<td><strong>10.5</strong></td>
<td><strong>11.0</strong></td>
<td><strong>10.5</strong></td>
<td><strong>11.0</strong></td>
</tr>
<tr>
<td><strong>Approx 2200 Kg/m3 depending on actual consistency used</strong></td>
<td><strong>Approx 2200 Kg/m3 depending on actual consistency used</strong></td>
<td><strong>Approx 1900 Kg/m3 depending on actual consistency used</strong></td>
<td><strong>Approx 2000 Kg/m3 depending on actual consistency used</strong></td>
</tr>
<tr>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
</tr>
<tr>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
<td><strong>Approximately 85-90 bags depending on actual consistency used</strong></td>
</tr>
<tr>
<td><strong>20kg</strong></td>
<td><strong>20kg</strong></td>
<td><strong>20kg</strong></td>
<td><strong>20kg</strong></td>
</tr>
</tbody>
</table>
# Product Selection Tools

## Grout Selection Chart

<table>
<thead>
<tr>
<th>USE</th>
<th>CONSISTENCY</th>
<th>APPLICATION THICKNESS</th>
<th>PERFORMANCE</th>
<th>BOSTIK SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Grouts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Purpose (Class A)</td>
<td>Stiff, plastic, flowable, fluid</td>
<td>20 -120mm</td>
<td>*Compressive strength 60MPa @ 28 days</td>
<td>Flowfill Grout GP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*Compressive strength 50MPa @ 28 days</td>
<td>Flowfill Panel Grout</td>
</tr>
<tr>
<td>Performance Grouting (Class C)</td>
<td>Stiff, plastic, flowable, fluid</td>
<td>10 -140mm</td>
<td>*Compressive strength 60MPa @ 28 days</td>
<td>Techflow Grout GP</td>
</tr>
<tr>
<td></td>
<td>Flowable, fluid</td>
<td>10 -90mm</td>
<td>*Compressive strength 40 MPa @ 24 hours</td>
<td>Techflow Grout HES</td>
</tr>
<tr>
<td><strong>Specialty Grouts</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High strength, non-rapid setting</td>
<td>Stiff, plastic, flowable, fluid</td>
<td>10 -140mm</td>
<td>*Compressive strength 80MPa @ 28 days</td>
<td>Techflow Grout HS (Class C)</td>
</tr>
<tr>
<td>Marine/underwater application</td>
<td>Flowable</td>
<td>20 -150mm</td>
<td>*Compressive strength 60MPa @ 28 days</td>
<td>Flowfill Grout UW (Class A)</td>
</tr>
<tr>
<td>High flow, high application thickness</td>
<td>Flowable, fluid</td>
<td>10 -400mm</td>
<td>*Compressive strength 60MPa @ 28 days</td>
<td>Techflow LA Grout (Class C)</td>
</tr>
</tbody>
</table>

* Note: Compressive strength values stated above are based on Flowable state.
Associated Categories – Trade vs. Application

Bostik offers a range of products which can be classified according to trade and application.
Class A Construction Grouts

Flowfill Grout GP

A general Purpose non-shrink (Class A) cementitious grout ideal for most void filling grouting jobs.

APPLICATION
• Application thickness 20mm - 120mm

CONSISTENCY
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

FEATURES
• Pre-hardening volume-adjusting. Controlled gaseous expansion system compensates for shrinkage and settlement before hardening occurs
• Ready to use, pre mixed, requires only the addition of water
• Can be pumped; trowelled, rammed or flowed to areas where normal grouting methods do not suffice
• Can be mixed for stiff, plastic, flowable or fluid application
• No metallic iron content to cause staining
• Lower water/cement ratio reduces drying shrinkage, increases durability and reduces permeability

RECOMMENDED USES
• General purpose cementitious grouting
• Pre-cast and pre-stressed panels
• Grouting in column bases
• Filling core holes, rod holes and defects in concrete
• Filling for hollow block walls
• Caulking of joints and pipes
Performance

**Compressive Strength Gain**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flowfill Grout GP</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492250632</td>
</tr>
<tr>
<td>30840122</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30840411</td>
<td>Grey</td>
<td>20Kg WA</td>
<td>1</td>
<td>9310492250632</td>
</tr>
</tbody>
</table>
Class A Construction Grouts

Flowfill Panel Grout

A general Purpose non-shrink (Class A) cementitious grout with enhanced working life, ideal for pre-cast and tilt-panel work.

APPLICATION
- Application thickness 20mm - 120mm

CONSISTENCY
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

FEATURES
- Pre-hardening volume-adjusting. Controlled gaseous expansion system compensates for shrinkage and settlement before hardening occurs
- Ready to use, pre-mixed, requires only the addition of water
- Enhanced working life
- No metallic iron content to cause staining
- Lower water/cement ratio reduces drying shrinkage, increases durability and reduces permeability
- Can be mixed for stiff, plastic, flowable or fluid application

RECOMMENDED USES
- All general purpose grouting
- Pre-cast and prestressed panels
- Grouting in column bases, base infilling
- Filling core holes, rod holes and defects in concrete
- Fill in grout for hollow block walls
- Tilt slab panels
Performance

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flowfill Panel Grout</td>
<td>30840172</td>
<td>Grey</td>
<td>20Kg</td>
<td>9310492131733</td>
</tr>
</tbody>
</table>
Flowfill Grout UW

A general Purpose non-shrink (Class A) cementitious grout with enhanced working life, ideal for pre-cast and tilt-panel work.

APPLICATION
- Application thickness 20mm - 150mm

CONSISTENCY
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

FEATURES
- Pre-hardening volume-adjusting. Controlled gaseous expansion system compensates for shrinkage and settlement before hardening occurs
- Ready to use, pre-mixed, requires only the addition of water
- Enhanced working life
- No metallic iron content to cause staining
- Lower water/cement ratio reduces drying shrinkage, increases durability and reduces permeability
- Can be mixed for stiff, plastic, flowable or fluid application

RECOMMENDED USES
- All general purpose grouting
- Pre-cast and pre-stressed panels
- Grouting in column based, base infilling
- Filling core holes, rod holes and defects in concrete
- Fill in grout for hollow block walls
- Tilt slab panels
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flowfill Grout UW</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492131719</td>
</tr>
</tbody>
</table>
Class C Construction Grouts

Techflow Grout GP
High performance, non-shrink (Class C) cementitious grout.

APPLICATION
• Application thickness 10mm - 140mm

CONSISTENCY
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

FEATURES
• Dual expansion compensates for shrinkage in the plastic and hardened state
• Ready to use, pre-mixed, and requires only the addition of water
• Can be pumped, trowelled, rammed or flowed to areas where normal grouting methods do not suffice
• Can be mixed for stiff, plastic, flowable or fluid application
• No metallic iron content to cause staining
• Lower water/cement ratio reduces drying shrinkage, increase durability and reduces permeability

RECOMMENDED USES
All general performance grouting
• Critical equipment base plates
• Heavy duty support beneath machine base plates
• Anchoring bolts, bars and fittings
• Underpinning
• Bridge bearing and crane rails
• Applications subject to continuous vibrations and dynamic loads
### Performance

![Compressive Strength Gain chart](chart.png)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Techflow Grout GP</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492131726</td>
</tr>
</tbody>
</table>
Class C Construction Grouts

Techflow Grout HES
A high performance, high strength, rapid setting, non-shrink (Class C) cementitious grout.

APPLICATION
- Application thickness 10mm – 90mm

CONSISTENCY
May be mixed and applied as a flowable or fluid consistency

FEATURES
- Dual expansion compensates for shrinkage in the plastic and hardened state
- Rapid strength gain facilitates for rapid installation and operation of plant equipment within 2 hours
- Ready to use, pre-mixed, requires only the addition of water
- Can be mixed for stiff, plastic, flowable or fluid application
- No metallic iron content to cause staining
- Lower water/cement ratio reduces drying shrinkage, increases durability and reduces permeability

RECOMMENDED USES
- Cementitious grouting where particular application requires rapid setting
- Critical equipment base plates
- Heavy duty support beneath machine base plates
- Bridge bearing and crane rails
- Anchoring bolts, bars and fittings
- Underpinning
- Applications subject to continuous vibrations and dynamic loads
Performance

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Techflow Grout HES</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492551029</td>
</tr>
</tbody>
</table>
Techflow LA Grout

A high performance, high flow (Class C) cementitious grout designed for large application thickness.

**APPLICATION**
- Application thickness 10mm - 400mm

**CONSISTENCY**
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

**FEATURES**
- Dual expansion compensates for shrinkage in the plastic and hardened state
- Excellent flow retention, for large application thickness
- Ready to use, pre-mixed, and requires only the addition of water
- Can be mixed flowable or fluid
- No metallic content to cause staining

**RECOMMENDED USES**
- Cementitious grouting where high flow, high application thickness is required
- Heavy duty support beneath machine base plates
- Bridge bearing and crane rails
- Anchoring bolts, bars and fittings
- Underpinning
- Applications subject to continuous vibrations and dynamic loads
- Precision grouting application
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Techflow LA Grout</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492256818</td>
</tr>
</tbody>
</table>
Class C Construction Grouts

Techflow Grout HS
A high performance, high strength, non-rapid setting, non-shrink (Class C) cementitious grout.

APPLICATION
• Application thickness 10mm – 140mm

CONSISTENCY
May be mixed and applied as a stiff, plastic, flowable or fluid consistency.

FEATURES
• Dual expansion compensates for shrinkage in the plastic and hardened state
• High strength, non-rapid setting
• Ready to use, pre-mixed, requires only the addition of water
• Can be mixed for stiff, plastic or flowable application
• Lower water/cement ratio reduces drying shrinkage increases durability and reduces permeability

RECOMMENDED USES
• Cementitious grouting where high strength is required
• Critical equipment base plates
• Heavy duty support beneath machine base plates
• Bridge bearing and crane rails
• Anchoring bolts, bars and fittings
• Underpinning
• Applications subject to continuous vibrations and dynamic loads
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Techflow Grout HS</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492551012</td>
</tr>
</tbody>
</table>
Concrete Repair

Patchfix Structural HB

A heavy duty, polymer modified, high build, structural repair reinstatement mortar with high ultimate compressive strength and abrasion resistance. The product is shrinkage compensated, which allows it to be used for vertical, horizontal and overhead application for large or small repairs.

FEATURES

- Shrinkage compensated allows for long term dimensional stability
- One component just adds water and mix
- High ultimate strength
- High build repairs can be completed in a single application
- Excellent workability
- Easy to use
- Excellent bond strength to concrete substrates
- High abrasion and impact resistance
- Low permeability provides protection from chloride attack and carbonation
- May be coated with Bostik range of protective coatings
- Extremely durable
- High bond repairs with exceptional perform and characteristics
- Reduces the need for formwork
- Australian made

RECOMMENDED USES

- Patching and repairing damaged concrete
- Structural repairs in horizontal, vertical and overhead surfaces subject to low high bearing
- Terraces, balconies and facades
- Repairs where high compressive strength and abrasion resistance is required
- Repairs to spalled concrete caused by corrosion of steel reinforcement
- Repairs to damaged industrial flooring
- High build application for repairs 10mm to 80mm on vertical substrates
- Repairs to sewer tunnels, dams, bridges, power stations, concrete tanks
- Re-profiling of worn areas
- Repairing concrete areas subject to chemical corrosion
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patchfix Structural HB</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492131511</td>
</tr>
</tbody>
</table>
Concrete Repair

Patchfix Concrete

A high performance rapid setting, high early strength, shrinkage compensated repair concrete for patching concrete roadways, pavements and floors. Bostik Patchfix Concrete is a special blend of cement and aggregates supplied in a ready to use form. The addition of water and mixing produces a high strength, heavy duty trowellable repair concrete that minimises shut down time and allows the repair back in service in 2-3 hours.

FEATURES

- Single component system of pre-blended powder, simply add water and mix
- Rapid strength gain will accept vehicle traffic in 2 hours
- High early strength
- Abrasion and weather resistance
- One component product, just add water
- Excellent bond strength to concrete substrate
- High build repairs can be carried out in a single application
- Shrinkage compensated
- Internal or external application
- Low permeability provides protection against chlorides and carbon dioxide
- Australian Made

RECOMMENDED USES

- Repairing localised patches, small or large
- Repairing concrete roadways, warehouse floors, ramps, concrete pavements
- Maintenance repairs for areas 10mm to 180mm in depth in one layer
- Emergency repair of concrete
- Patching of worn or damaged concrete
- Concrete spalling repair
- Floor repairs and overlay
- Where minimum disruption to traffic and floor shutdown is required
- Floor areas subject to high abrasion and impact
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patchfix Concrete</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492131528</td>
</tr>
</tbody>
</table>
Concrete Repair

Patchfix Fine Render

A fine polymer modified fairing mortar for applications in thin layers. It produces a natural concrete Grey appearance to concrete or masonry surfaces. It can be applied from feather edge up to a maximum thickness of 5mm. Bostik Patchfix Fine Render is a shrinkage compensated and based on hydraulic binders and synthetic polymers.

FEATURES
- Single component system of pre blended powder, simply add water and mix
- Excellent bond strength and adhesion to concrete or masonry surface
- Feather edging capability
- Shrinkage compensated allows for long term dimensional stability
- Easy to use and apply
- For internal and external use
- Durable, low water permeation
- High ultimate strength
- Can be used in vertical, horizontal and overhead application
- Can be coated with Bostik range of protective coatings
- Australian Made

RECOMMENDED USES
- Thin layer patching for vertical, horizontal and overhead applications
- Rendering over porous or damage concrete structures such as walls, water tanks and sewerage and water treatment plants
- Levelling of uneven surfaces prior to coating
- Repairs where high compressive strength and abrasion resistance required
- Repairing honeycomb concrete, cracks and pinholes
- Patching of tilt slab and pre-cast concrete
- As a render over brickwork, concrete and other common masonry is required
- As a integral base for application of Bostik range of protective coatings
- Applications requiring thin build of feather edge to 5mm in one application
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patchfix Fine Render</td>
<td>Grey</td>
<td>20Kg</td>
<td>1</td>
<td>9310492131535</td>
</tr>
</tbody>
</table>
Primer and Curing Compound

Bond ‘N’ Cure

Bostik Bond ‘N’ Cure is the recommended primer, bonding agent and curing compounded primer, for use with Bostik’s Patchfix range of concrete repair systems.

FEATURES
Allows optimum build of Bostik Patchfix Structural HB, Bostik Patchfix Panel Repair HB, Bostik Patchfix Concrete and Bostik Patchfix Fine Render.
- Can be used internally and externally
- Resistant to hydrolysis
- High ultimate bond strength between repair mortar and concrete substrate
- Non hazardous

RECOMMENDED USES
Bonding agent, primer for Bostik range of concrete repair products. As a curing compound over Bostik range of concrete repair products, Bostik Patchfix Structural HB, Bostik Patchfix Panel Repair HB, Bostik Patchfix Concrete and Bostik Patchfix Fine Render.
- Bonding new to old concrete
- Sealing concrete surfaces
- For use in vertical, horizontal or overhead applications
SURFACE PREPARATION

Concrete Substrate Preparation
- The substrate must be clean, sound and free of dust and loose particles.
- Cement laitance, oil, grease, mould release oil or curing compound must be removed from concrete surfaces by using wire brush, bush hammer, scabbler, grit blasting or other means.
- Steel surfaces should be degreased with a suitable solvent or treated by grit blasting. Steel rebars must also be clean from grease, oil or rust.
- When repairing spalled or deteriorated concrete, ensure that the concrete has been cut back to sound material.
- In cases where corrosion is present, wire brushing to a clean bright surface is sufficient. Before applying
- Bostik Bond ‘N’ Cure pre-wet the substrate thoroughly to saturate to pores completely with water.
- During application of Bostik Bond ‘N’ Cure the temperature of the substrate should not be below +5°C.
- To avoid too high surface temperature, it is advised to shadow areas for the period of applications.

APPLICATION

AS A Curing Agent
- On completion of applying and finishing off the repair mortar to prevent excessive moisture loss and rapid drying off the repair mortar resulting in surface cracking it is advised to apply Bostik Bond ‘N’ Cure over the surface.
- Bostik Bond ‘N’ Cure should be applied by brush, roller or spray application immediately after final trowel in a continuous film over the repair mortar.
- Bostik Bond ‘N’ Cure can be over coated with the Bostik range of protective coatings after full cure.

As A Bonding Agent
- Bostik Bond ‘N’ Cure is supplied in a form that is ready to use. DO NOT DILUTE WITH WATER.
- All repairs whether vertical or horizontal, should be prepared by saw cutting 10mm around the repair. This avoids thin section or feather edging of the repair mortar.
- Pre-soak the clean substrate with clean fresh water prior to application of Bostik Bond ‘N’ Cure.
- Apply Bostik Bond ‘N’ Cure at a coverage rate of 4-5m² per litre to the damp (not wet) concrete substrate.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Colour</th>
<th>Unit Size</th>
<th>Pack Size</th>
<th>APN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bond ‘N’ Cure</td>
<td>Milky White</td>
<td>SL</td>
<td>4</td>
<td>9314329007949</td>
</tr>
</tbody>
</table>
Application Instructions

Always refer to the Product Technical Data Sheet (TDS) and Material Safety Data Sheet (MSDS) before using.

Substrate and Surface Preparation
The substrate surface must be clean, sound and free from oil, grease, curing compound or any loose materials. It must be mechanically abraded back to a sound concrete surface.

• Bolts or anchor holes must be clean and free from dust or loose material. This can be achieved by blowing clean the hole.
• Base plates must be cleared of all rust, oil or grease. It is essential to provide air pressure relief holes for venting.

Pre-Soaking
It is essential to pre-soak the concrete substrate prior to application of the cementitious grout. Pre-soak substrate with water for a minimum of 6 hours prior to grouting. Immediately before pouring, the excess water should be removed. In the case of bolt/anchor holes, the holes must be blown out to ensure no traces of free water are present whilst grouting.

Formwork
Formwork must be constructed to facilitate rapid and continuous filling, whilst remaining leak proof and water tight. Foam rubber strips or suitable sealants underneath the formwork are recommended.

Unrestrained Surfaces
Due to expansion, unrestrained areas must be kept to a minimum. It is advisable not to leave any unrestrained areas.

Low Temperature Working
At temperatures below 5°C the cure rate and strength development will be dramatically reduced. If early strength is required, it is advisable to use heated water and condition the cementitious grout to 25°C. Do not exceed this temperature.

High Temperature Working
At temperatures above 30°C, it is advisable to use water below 20°C when mixing grout. All materials must be kept cool and away from direct sunlight. If practical, the installation area should be shaded by erecting shade screens. If ambient temperatures are excessive, grouting should be scheduled for early morning or late afternoon.
Mixing

Bostik’s range of grouts require between 2.8 - 4.4 litres of potable water per 20kg bag, depending on the desired consistency. Always follow instructions on packaging or TDS. Mixing should be performed using a forced action high shear stirrer powered by a heavy duty electric mixing drill at approximately 600rpm.

- Add pre-measured water to a clean mixing bucket.
- Gradually add powder into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bags have been added to the water, mix for a further 3 - 5 minutes to produce a smooth homogeneous consistency.

It is essential that the grouting operation is continuous hence ensure sufficient labour and mixing capacity is available.

**CAUTION**

**DO NOT MIX BY HAND**
**DO NOT ADD ADDITIONAL WATER**

Discard any unused grout that has stiffened or hardened.

Pouring

The desired ambient temperature for pouring is approximately 20°C. At this temperature it is essential the grout is placed within 25 minutes of mixing as this will ensure the expansion process is maximised. Ensure the entire area to be grouted is completely filled. We advise the following:

- Use a suitable head box to ensure continuous flow of grout.
- Place/pour grout from one side, minimizing the likelihood of trapped air.
- The grout head must be maintained at all times so that a continuous grout front is achieved.
- Do not use mechanical vibrators to assist in flow as this will cause segregation.

Curing

To prevent excessive moisture loss during curing, Bostik recommends one of the following:

- Cover the area with wet hessian.
- Cover the area with plastic sheeting.
- Apply Bostik Bond ‘N’ Cure via spray or roller (refer to TDS).

At ambient temperature, formwork should be removed no sooner than 24 hours after completion of grouting. The covering should stay in place for a further 6 days. Lack of sufficient curing could result in plastic cracking and drying shrinkage on the surface.
Application Instructions

**Bostik Co-operative Test Option**

Bostik has established a testing service (PATS) to assist in specifying and selecting the most suitable product for a certain application. The service is available on large projects prior to commencement of works. Consult a Bostik representative for further information.

**Storage & Shelf Life**

Bostik cementitious grouts have a shelf life of twelve (12) months if kept in a dry environment completely away from moisture.

**SAFETY PRECAUTIONS**

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

**EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)**

MSDS and TDS can be downloaded from www.bostik.com

**Clean-Up**

Grouts should be removed from tools and equipment with clean water immediately after use.

**Bostik Product Guarantee**

This product comes with consumer guarantees that cannot be excluded under the Australian Consumer Law (ACL). In addition to your rights as a consumer under the ACL or other laws, Bostik guarantees the performance of this product for 10 years if the product is used within its shelf life and in accordance with the usage instructions printed on this packaging or the product’s Technical Data Sheet available on our website. This 10 year guarantee specifically excludes any loss or damage caused by incorrect usage and covers the removal and replacement of the affected materials if the failure is proven to be directly related to Bostik products within the warranty period.

If you wish to make a claim under this guarantee you must within 2 weeks after first identification of damage notify us in writing using the details on the packaging.

You must provide evidence of your purchase and specify the batch number printed on the packaging. Bostik reserves the right to inspect any alleged failure and no responsibility will be accepted unless Bostik is given the opportunity to do so.
Index

Bostik Green Commitment 4
QR Codes 6
Pictograms 7
Cementitious Grouts 8
Specialty Grouts 10
Product Selection Tools 12

CLASS A CONSTRUCTION GROUTS
Flowfill Grout GP 14
Flowfill Panel Grout 16
Flowfill Grout UW 18

CLASS C CONSTRUCTION GROUTS
Techflow Grout GP 20
Techflow Grout HES 22
Techflow LA Grout 24
Techflow Grout HS 26

CONCRETE REPAIR
Patchfix Structural HB 28
Patchfix Concrete 30
Patchfix Fine Render 32

PRIMER AND CURING COMPOUND
Bond ‘N’ Cure 34
Application Instructions 36