



# Technical Data Sheet

# EXCELFLEX



architectural +  
structural  
adhesives

tile adhesives, grouts, waterproofing, soundproofing, specialty products, self levelling compounds

## DESCRIPTION

**ASA Excelflex** is a flexible, powdered adhesive for wall and floor applications. Suitable over concrete, cement render, screeds, fibrous cement sheeting, plasterboard and **ASA/Bostik** approved waterproofing membranes. **ASA Excelflex** is recommended for all internal and external applications including bathrooms, toilets, laundries, kitchens, decks and verandahs. **ASA Excelflex** is suitable for bonding most types of tiles.

## FEATURES & BENEFITS

- **C1** - Good bond strength
- **S1** - Flexible powdered adhesive
- **E** - Extended open time
- Hydrates - chemically cures
- Cost effective
- Water washable
- No odour

## RECOMMENDED FOR

- Concrete (as per AS3958.1-2007, sections 3.3.1.2 and 3.3.3.2)
- Cement render and screeds
- Rendered brickwork
- Rendered concrete block
- Fibrous cement sheeting (internal use only)
- Compressed fibrous cement sheeting
- Plasterboard (internal use only)
- Tiling over **ASA/Bostik** approved waterproofing membranes only



## SURFACE PREPARATION

All surfaces must be clean, dry, and be free from dust, grease, wax, oil, laitance, curing compounds, release agents, paint or coatings, friable material and all other contaminants likely to prevent the adhesive bonding. Flexible building boards such as fibre cement sheet and plasterboard must be fixed in accordance with the manufacturer's printed directions. They should all be primed with **ASA Multiprime** prior to tiling - particularly where a jointing compound has been used. Concrete should be allowed to cure for a minimum of 28 days and cement renders/screeds must be allowed to cure for 7 days. A wood float finish is preferred. Inspect the surface for a loose, friable, dusty layer, known as laitance. This must be removed by mechanical abrasion prior to tiling. Vacuum and wet mop the surface after abrading, to ensure it is free from dust. Where the surface is a smooth steel trowel finish, place a 20ml water drop onto the surface - if the water penetrates the surface, the slab is suitable for tiling. Vacuum and wet mop the surface prior to tiling. If the water drop does not penetrate, the slab must be mechanically abraded prior to tiling. Vacuum and wet mop the surface after abrading, to ensure it is free from dust. Highly porous concrete slabs should be primed with **ASA Multiprime** prior to tiling. For certain non-porous/impervious surfaces, these can be primed using **ASA Epoxy Prime 2 Part/Bostik Ultra NP Primer**. For further information contact **ASA/Bostik**. **ASA Epoxy Prime 2 Part/Bostik Ultra NP Primer** should be used over **ASA/Bostik** approved solvent based polyurethane waterproofing membranes. All **ASA/Bostik** waterproofing membranes must have dried in accordance with the printed directions on the packaging.

## MOVEMENT JOINTS

Movement joints must be incorporated at the design stage and in accordance with AS3958.1- 2007.

## MIXING

20kg of **ASA Excelflex** powder requires approximately 5 litres of water which produces 17 litres of mixed product and is best mixed with a force action high shear mechanical mixer. Add a measured amount of clean water into a clean container and sprinkle **ASA Excelflex** powder slowly into the liquid with constant stirring. Eliminate lumps. Mix to a homogeneous consistency. Allow to stand for 2 minutes. Then re-mix. Adhesive is now ready to use. Do not mix by hand.

## APPLICATION

All workmanship must be carried out in accordance with AS3958.1- 2007.

Apply the mixed adhesive to the prepared substrate using the appropriate notched trowel for the size of the tile being laid. A minimum of 1mm and a maximum of 3mm bed thickness for walls and a minimum of 3mm and a maximum of 4mm for floors must be achieved. Ensure that the tiles are fully supported by the adhesive with no voids. Do not spread more than 1m<sup>2</sup> of **ASA Excelflex** at a time. Lay tiles into the adhesive before it skins. If the adhesive skins, re-spread the adhesive. Do not disturb tiles until the adhesive has cured. Discard any **ASA Excelflex** that has hardened or stiffened in the mixing bucket. Further addition of water will NOT reconstitute a useable mixture.

## DRYING

Allow a minimum of 24 hours for the adhesive to set (or when tile work is firm) and 24 - 48 hours when tiling over **ASA/Bostik** approved waterproofing membranes and non-porous substrates prior to allowing foot traffic or grouting. **ASA Excelflex** must not come into contact with water at any stage during cure. Do not tile if temperatures are likely to drop to below 5°C or exceed 35°C. For temperatures below 20°C allow the adhesive to cure for an extended period of time. If uncertain check to see if the adhesive has set before allowing foot traffic or grouting.

## GROUTING

Use the appropriate **ASA** grout with **ASA Grout Additive** as a total water replacement when grouting over flexible substrates. Allow joint widths of 1.5mm to 5mm for walls and 3mm to 15mm for floors as per AS3958.1-2007. Thoroughly clean the surface of the tiles to remove all residue prior to the grout and Grout Additive drying.

## CLEAN UP

**ASA Excelflex** can be removed from the surface of the tiles using a damp cloth while the adhesive is still wet. Tools and equipment can be cleaned with warm water and detergent prior to adhesive drying.

## COVERAGE

Approximately 1.5kg powder per m<sup>2</sup> using a 6mm x 6mm notched trowel (approximately 13m<sup>2</sup> per 20kg bag) and 2.5kg powder per m<sup>2</sup> using a 10mm x 10mm notched trowel (approximately 8m<sup>2</sup> per 20kg bag) and 3kg powder per m<sup>2</sup> using a 12mm x 12mm notched trowel (approximately 6.5m<sup>2</sup> per 20kg bag).



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## SAFETY DIRECTIONS

Avoid contact with skin and eyes. Avoid breathing dust. Wear overalls, safety shoes, impervious gloves and chemical goggles. Use only in well ventilated areas. If inhalation risk exists wear a dust respirator. No smoking. Avoid contact with foodstuffs, and sources of heat and ignition. Wash hands thoroughly after use. Store in a cool place and out of direct sunlight. Store away from oxidising agents. Do not empty into drains.

**RISK:** Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**FOR FIRE:** If involved in a fire use water, fog, foam or dry agents. Avoid breathing products of combustion.

**FOR SPILLS:** Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up and place spilled material in clean, dry, sealed container. Flush spill area with water. Refer to State/Territory Land Waste Management Authority for disposal.

## FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone Australia: 131126, New Zealand: 0800 764 766).

**SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.**

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

**SWALLOWED:** If swallowed, do NOT induce vomiting. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**EYE:** Immediately irrigate with copious amount of water for 15 minutes. Eyelids to be held open. Urgently seek medical advice.

**SKIN:** If skin or hair contact occurs, flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

**INHALED:** If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. Seek medical advice if in doubt.

## PACKAGING AND SHELF LIFE

20kg paper bags. Unopened bags can be stored for up to 12 months in a cool, dry and weatherproof environment. Bags must be stored off the floor.

## LIMITATIONS

- Not suitable for tiling directly onto timber, plywood, particleboard, MDF and Masonite.
- Not suitable for continuous water immersion applications, eg: swimming pools and spas etc.
- Not suitable for tiling over waterproofing membranes unless it is an **ASA** or **Bostik** approved product.
- Not suitable for tiling directly onto metals or plastic substrates.
- Not suitable for tiling directly onto polyurethane membranes, contact **ASA** for further information.
- Not suitable for moisture sensitive tiles or stone.
- Do not mix or apply adhesives in temperatures below 5°C and above 35°C and under extreme hot and windy conditions.
- External tiling must not exceed 2.7m in height.
- Suspended concrete slabs must conform to AS3958.1-2007 for maximum deflection. Any post tensioned concrete slabs must be treated as a flexible substrate. For further information, contact **ASA/Bostik**.

**DISCLAIMER:** The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.

**ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK AUSTRALIA PTY LTD**

PHYSICAL PROPERTIES		MECHANICAL PROPERTIES	
Appearance:	Cementitious grey powder	Tensile strength:	1.38 N/mm <sup>2</sup>
Bulk density:	1.35 g/cm <sup>3</sup>	After immersion:	1.1 N/mm <sup>2</sup>
Mixed S.G:	1.42 g/cm <sup>3</sup>	Heat ageing:	0.9 N/mm <sup>2</sup>
Mixing ratio:	5 litres of water to 20kg of product	Freeze/thaw:	0.8 N/mm <sup>2</sup>
Pot life:	3.5 hours at 22°C and 50% RH	Transverse deformation:	2.9 mm
Set time:	24 hours at 22°C and 50% RH		
Open time:	30 minutes at 22°C and 50% RH		
SCAQMD - US RULE 1168	VOC %:	<1	
	VOC g/Litre:	<1	



**TECHNICAL SERVICES TOLL FREE NUMBER**  
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0508 222 272 New Zealand (land lines only)  
or visit [www.asaltd.com.au](http://www.asaltd.com.au)  
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