



ULTRA S1 GREY / WHITE

TILE ADHESIVE

TECHNICAL SHEET 14/05/2023 – Version 3

SMART ADVANTAGES

- Smooth trowel feel
- Superior anti-slip
- Excellent water resistance
- Commercial grade
- Grey and white colour available
- Suitable for immersion when 50% mix water is replaced with **Megalastic**
- Best for large wall tiles
- Demanding jobs and high traffic floor tiling

DESCRIPTION

Bostik ULTRA S1 Grey / White is a premium tile adhesive designed for demanding or high traffic applications for walls and floors. An excellent all-round adhesive with superb bond and overall performance.

According to ISO 13007 it is classified as:

C2 - Improved cementitious adhesive

S1 - Flexible

E - Extended Open Time

T - Slip resistant

FUNCTIONAL CHARACTERISTICS

- Floors
- High traffic areas
- Large or demanding jobs
- Interior and exterior use
- Suitable for use on
 - Concrete
 - Fibre Cement
 - Plasterboard
 - Rendered bricks and/or blocks
 - Bostik approved waterproofing membranes
 - All moisture stable tile types

TECHNICAL CHARACTERISTICS

Properties	Value
Colour	Grey / White powder
Mixed S. G.	1.76 g/cm ³

Mixing ratio	20kg into 5.0 – 5.5 L
Pot Life	3 hours at 22°C and 50% RH
Set time	<24 hrs at 22°C/50% RH
Open time	> 30 min at 22°C/ 50% RH
Tensile strength	> 1.0MPa
After immersion	> 1.0MPa
Heat ageing	> 1.0MPa
Freeze / thaw	> 1.0MPa
Transverse deformation	> 2.5mm, < 5mm

COVERAGE

On site coverage will vary widely as it is dependent on many variables. These include but are not limited to application technique, substrate texture, wastage, trowel angle, trowel wear, contact coverage and flatness. As such the following coverage is intended as a guide only. It is advised that comparisons between products are based on the mixed volume.

When mixed bag yields 14 to 14.5 litres	
Approximate Coverage (10mm trowel)	
Kg per m ²	m ² per bag
3.6	5.5 - 6.0

INSTALLATION

PREPARATION

- Make sure the substrate has been correctly installed according to relevant standards and manufacturer recommendations.
- Allow for minimum curing time for screeds (7 day) and concrete (28 days).
- Remove all materials that will interfere with bond. These include oils, grease, wax, release agents, curing compounds dust and any loose material.
- Ensure surface is sound. All weak or friable material must be removed.

- Check the cleaned surface by applying a small amount of water. It will be easily absorbed if porous and bead on the surface if not.
- Treat porous surfaces with **Bostik Asa Multiprime**.
- Most non-porous surfaces may be primed with **Bostik Ultra NP Primer**.
- May be used to bond to existing tiles when 50% of mix water is replaced by **Bostik Asa Megalastic**. Tile size is limited to 300x300mm when used outdoors. Ensure existing tile surface is sound and clean. Remove all cracked, drummy or otherwise unsound tiles and repair area appropriately. Due to the possible variables extra surface preparation may be required. Contact Bostik before work starts for further advice if required.
- If tiling is to be immersed use with 50% mix water replaced with **Bostik Asa Megalastic**.
- Contact Bostik before commencing tiling if there is any doubt about required or suitable preparations.

APPLICATION

Mixing

20kg powder mixes into 5.0 to 5.5 litres of water or 1Kg into 250 to 275mL water

- add water to bucket
- mix powder into water with mechanical stirring
- mix until smooth
- allow to stand for 2 minutes before briefly remixing and using

Note: Mix consistency will appear thicker than standard adhesives but will still be smooth and easy to trowel. When mixed correctly, mixed product will stick to underside of trowel without dropping off.

Always add the powder to the water. Use a drill with suitable mixing paddle designed for the task. Do not mix by hand. Use a low speed mixer (300rpm).

Applying

- Apply to the prepared substrate using a notched trowel:
 - 6mm notch for tiles up to 150x150mm
 - 10mm notch for up to 250x250mm
 - 12mm notch for 300x300mm tiles.
 - Tiles 400x400mm and larger should be back-buttered in addition to using a 12mm notched trowel
- Press tiles firmly into adhesive before it skins. Apply only up to 1m² at a time to avoid skinning
- If skinned, re-spread to expose “wet” adhesive.
- Check that enough of the substrate and tile back are in contact with adhesive (usually at least 80% but higher for large format tiles).
- Discard any material that has hardened before use.
- Allow adhesive to harden adequately before grouting
- All workmanship must be carried out in accordance with AS3958.1-2007 and good workmanship practices

SET TIME

Less than 24 hours at 22°C and 50% Relative Humidity
Pot life and setting will be influenced by ambient conditions. In warm or dry conditions, a shorter pot life and setting time should be expected and longer when cool. Extra care should

be taken in warm or dry conditions to ensure the adhesive has not stiffened significantly before the tiles are applied. Ensure that the open time has not been exceeded. If in doubt discard unused product and prepare a fresh batch.

GROUTING

- Use a suitable **ASA Designer Grout**.
- Modify **ASA Designer grout** with **Asa Megalastic** when tiling is over a flexible substrate or when improved water resistance is required.

LIMITATIONS

- Only tile surfaces that are suitable. If in doubt check with substrate manufacturer.
- Use only ambient conditions between 5 and 35°C. Do not use in windy or very low humidity conditions.
- Uncured adhesive may wash out if exposed to excessive moisture before curing adequately.
- When tiling walls do not exceed 2.7m or check that it will support the intended weight. Mechanical fixing is recommended in such situations.
- Not designed for direct bonding to solvent based polyurethane waterproofing membranes. If required to tile an area treated with this type of membrane special surface preparation is required. Contact Bostik for further information.
- Not designed for direct bonding to plastic or metal.
- 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 Bostik.
- Contact Bostik for advice before work starts if substrate or tile are unusual or non-traditional or if there is any uncertainty regarding suitability or preparation.
- When tiling directly onto waterproofing membranes check to ensure compatibility. If not already approved by Bostik in writing additional compatibility tests may be required.
- This product is not suitable for use with moisture sensitive stone, tile or other materials.

Important Notes

It is recommended that this product is fully evaluated as suitable for the application methods to be employed and for suitability of performance both initially and for the expected life of your product under the condition it is expected to withstand.

CLEANING

Wash tools and equipment with water. Remove excess adhesive using a wet cloth before the product hardens. If allowed to set it must be removed mechanically.

STORAGE

12 months when stored off the ground in a cool, dry and weatherproof environment. Store in a cool place and out of direct sunlight. Store away from oxidizing agents.

PACKAGING

Size	20Kg bag
Product codes	
Ultra S1 Grey	30607129
Ultra S1 White	30804511

HEALTH AND SAFETY

This product contains small amounts of crystalline silica, of which some will be respirable (primarily respirable quartz). Prolonged or repeated inhalation of respirable quartz from this product may cause silicosis, a seriously disabling and fatal lung disease.

Do not breathe dust. Wear a dust mask when handling powder. Wear protective gloves and safety glasses at all times. Do not handle until safety precautions have been read and understood.

Product Safety Data Sheet must be read and understood before use. These are available on request and via the websites. Visit www.bostik.co.nz for copies.

For emergency information contact the National Poisons Information Centre, phone 0800 764 766 (0800 POISON) or CHEMCALL, phone 0800 243 622.

The application recommendations are defined by standards of use. They are imperative to respect them, but they don't need a previous try, especially for a first use or particular inconvenient of support, site or environment. Consult our safety data sheets for precautions to use.

DISCLAIMER

Bostik offers this Technical Data Sheet ("TDS") for descriptive and informational use only. It is not a warranty, a contract or a substitute for expert or professional advice. Please also see the local product Safety Data Sheet for health and safety considerations.

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