



TECHNICAL DATA SHEET

AUS-CRETE

INDUSTRIAL **RAPID**

**SUITABLE FOR HEAVY TRAFFIC,
TILE AND STONE FACADES**

**INDUSTRIAL GRADE ADHESIVE
EXTRA HEAVY DUTY**

SHOCK AND VIBRATION RESISTANT

TRAFFICABLE IN 3 HOURS AT 21°C



SUITABLE FOR:

- EXTRA LARGE TILE AND STONE
- MARBLE AND GRANITE
- TILE OVER TILE
- PORCELAIN TILE
- WATER SENSITIVE STONE*
- ALL MASONRY SUBSTRATES
- RENDER, BRICK AND BLOCK WORK
- CEMENT SHEET AND PLASTERBOARD
- SUITABLE WATERPROOFING
- FAST RETURN TO SERVICE

**Water sensitive tile or stone should be tested to ensure a suitable outcome, water sensitive tile and stone should not be installed in wet areas, confirm the suitability of the water sensitive tile or stone from the supplier and manufacturer prior to use.*

Coverage per bag	
6x6mm trowel	10x10mm trowel
8 - 10 m ²	Approx. 6 m ²

TEN YEAR WARRANTY
AUSTRALIAN STANDARDS COMPLIANCE C2FS1
LOW VOC GREEN STAR COMPLIANT



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TECHNICAL NOTES: AT 21°C

OPEN TIME	25 MINUTES
POT LIFE	45 MINUTES
INITIAL SET	2 - 3 HOURS
FOOT TRAFFIC	2.5 – 3.5 HOURS
HEAVY TRAFFIC	12 HOURS

TECHNICAL NOTES: AFTER 28 DAYS

TENSILE STRENGTH (TS) - 6hrs	≥ 0.8Mpa, ≤ 1.20Mpa
TENSILE STRENGTH (TS)	≥ 2.20Mpa, ≤ 3.20Mpa
TS, 21 DAYS IMMERSED	≥ 1.00Mpa
TS, 14 DAYS HEAT AGEING	≥ 1.50Mpa, ≤ 2.70Mpa
TRANSVERSE DEFORMATION	≥ 2.50mm, < 3.20mm
COMPRESSIVE STRENGTH	≥ 20.0 MPa

Available Colours: Grey or Beige

Available packaging: 64 x 20kg plastic lined paper sacks

Description:

Aus-Crete Industrial Rapid is a high performance, flexible, polymer fortified cement-based adhesive that is used for installing a wide range of tile and stone. **Aus-Crete Industrial Rapid** provides great coverage and is easy to use. **Aus-Crete Industrial Rapid** will install tile and stone to a very wide range of substrates: tile over tile, tile over terrazzo, cement sheet, plasterboard, suitable waterproof membranes, concrete, render and screeds.

Aus-Crete Industrial Rapid is suitable for extra heavy-duty installations, industrial/commercial walls and floors. It is also suitable for facades, areas subject to thermal and physical shock, rapid transit constructions and areas subject to constant heavy vehicle traffic. Suitable for internal and external use. **Aus-Crete Industrial Rapid** is suitable for water sensitive tile or stone a test area should be installed to ensure a suitable outcome, water sensitive tile and stone should not be installed in wet areas, confirm the suitability of the water sensitive tile or stone from the supplier and manufacturer prior to use.



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Surface Preparation: All substrates must be clean and free from laitance, curing compounds, dirt, dust, grease, oil and any other contaminants that may inhibit bond. All substrates should be washed with clean water just prior to the application of the adhesive.

Mixing:

For best results mix **Aus-Crete Industrial Rapid** with a slow speed mixer, one that does not entrap air into the mix. Add clean potable water to a clean mixing pail and slowly add the powder. Mix to a smooth creamy consistency for 2 minutes, then allow to stand/slake for 2 minutes before remixing just prior to use.

Mix approximately 20kg of **Aus-Crete Industrial Rapid** powder with approximately 4.8L of water, 1L for every 4.2kg of powder. Mixing ratios will vary slightly depending on site conditions and the installation; when using a larger notched trowel the adhesive will need to be slightly firmer, and when using a smaller notch trowel the adhesive will need to be slightly wetter. Do not use wet, sloppy adhesive, as this will increase shrinkage and reduce strength. Do not use stiff, hard to trowel adhesive as this will reduce bond strength.

Installation:

All tile and stone installations should be made in accordance with Australian Standards and industry guidelines. **Aus-Crete Industrial Rapid** is applied to the substrate with the flat side of the trowel. Ensuring that it is worked into good contact with the substrate, the trowel is then turned over and the notched side is used to comb out even ribs of adhesive onto the substrate. Be sure to use a suitable size notch trowel to suit the tile or stone, in general the larger the tile or stone the larger the notch trowel. Tile or stone is then placed into the adhesive and twisted, pushed, rubbed or tapped to ensure adequate coverage of adhesive and to promote a good bond. When installing larger tile and stone the adhesive should be applied to the substrate as above and applied to the back of the tile or stone to ensure adequate coverage and a good bond.

At no time should any tile or stone be spot fixed with conventional adhesives. If the wall or floor is not true and level apply the adhesive to the substrate as above, then back butter the tile or stone with additional adhesive to the required thickness to plumb and level the tile or stone work. Particular attention should be paid to the corners and edges of the tile or stone to ensure they are fully supported by the adhesive.

Some tile and stone can show staining from adhesives, particularly if the adhesive does not cover the full surface area of the back of the tile or stone. This is not a fault with the adhesive. To help prevent staining fully cover the back of the tile or stone with the adhesive, use a white or light coloured adhesive for translucent tile or stone. Staining occurs with some limestone, marbles and basalt but can occur with many stones and translucent tiles. A test area should be carried out on unknown tile and stone to ensure a suitable outcome for the project.



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Apply only as much adhesive as can be covered within 5-10 minutes (while the adhesive is wet and tacky), as the open time can vary depending on the substrate, site conditions, wind and temperature. Do not install tile or stone on skinned adhesive. Do not tile over expansion/control joints in the substrate, these joints must be carried through the tile or stone work and must conform to Australian Standards. Install expansion/control joints at regular intervals in the tile or stone work as per Australian Standards.

When installing tile or stone over cement sheet or waterproof membranes consult the suppliers for their installation specifications and instructions. Some cement sheet suppliers recommend placing expansion/control joints over all joints in the cement sheet. Additional expansion/control joints should be installed on lightweight constructions to help allow for additional movement in the substrate. Do not tile over cracks or cold joints, these should be treated as an expansion/control joint or treated with **Aqua-Stick 1000** as a crack suppression bandage prior to tiling.

Cleaning:

Remove excess adhesive with clean water while work proceeds. Hardened adhesive will be difficult to remove.

Grouting:

Can take place when the tile and stone has set firm. Remove all debris from grout joints prior to grouting, and ensure grout joints are an even depth to help prevent shading in grout. Install the grout as per manufacturer's recommendations, using as little water as possible in the clean-up process to help prevent efflorescence and colour variations in the grout. Always use grout from the same batch.

Coverage:

Will vary due to site conditions and the substrate, as a guide 20kg of **Aus-Crete Industrial Rapid** will cover approximately 6m² with a 10x10mm trowel and 8-10m² with a 6x6mm trowel.

Precautions and Limitations:

This adhesive may not be suitable for all water sensitive tile or stone (some stone can only be installed with an epoxy adhesive) and some waterproof membranes such as full polyurethane, bitumen or torch on membranes. Always consult the manufacturer of these materials prior to starting the project. Do not use on tongue and groove timber or timber that is affected by moisture. In general, all timber should be overlaid with cement sheet prior to tiling. Always follow the installation instructions of the substrate supplier and Australian Standards. Adhesives are affected by extremes of temperature. In hot weather conditions the adhesive will set fast and have a shorter open time; in cold conditions the adhesive will set slow



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requiring extended time prior to grouting and traffic. Do not use below 2°C and above 40°C. Structural failure and suitability of the substrate is outside of our control, care should be taken by the installer as starting the work constitutes acceptance of the substrate. Consult ATA if you have any questions.

Safety:

Refer to the Safety Data Sheet for full, detailed instructions in accordance with the hazardous chemicals code of practice.

This product contains sand and cement (silica). Avoid breathing dust, wear an appropriate respirator and provide adequate ventilation. Avoid contact with skin and eyes, wear suitable gloves, eye protection and work wear.

Warranty:

“Australasian Tiling Adhesives Pty Ltd (“ATA”) warrants that **Aus-Crete Industrial Rapid** (“the goods”) will be free of defects for a period of up to **Ten Years** from date of installation, subject to the goods being utilised and installed strictly in accordance with Australian Standards and industry guidelines. The use of the goods is beyond the control of ATA and/or the supplier and the liability of ATA under this warranty is restricted only to the replacement of the material found to be defective. Structural failure of the substrate is not covered by this warranty and the manufacturer and/or supplier of the goods will not be liable for any damage whatsoever arising from the incorrect use of the goods. A warranty claim must be made in writing by email to [admin@ata.com.au] by you within seven days of becoming aware of the defect. Proof of purchase by you, the date of purchase, and evidence of who installed the product, with relevant contact details, must accompany all claims. In the event of a dispute arising in relation to a claimed defect, ATA reserves the right to engage an independent expert to investigate and report, and the cost of the expert will be borne by the party at fault. The benefits to you given by this warranty are in addition to other rights and remedies you may have under any law in relation to the goods to which the warranty relates. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods replaced or repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.”

Contact Details:

Australasian Tiling Adhesives Pty Ltd (ATA), ABN: 92 154 228 207, ACN: 154 228 207, Mobile: 0448 404 333, Email: admin@ata.com.au , Web: ata.com.au