

AUS-CRETE PREMIUM

EXTRA HEAVY-DUTY ADHESIVE – C2TES1

DESCRIPTION

Aus-Crete Premium Industrial is a high performance, flexible, polymer fortified cement-based adhesive that is suitable for extra heavy duty installations, industrial & commercial walls and floors, swimming pools and areas subject to constant underwater exposure. 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.

Available in white, off-white and grey.

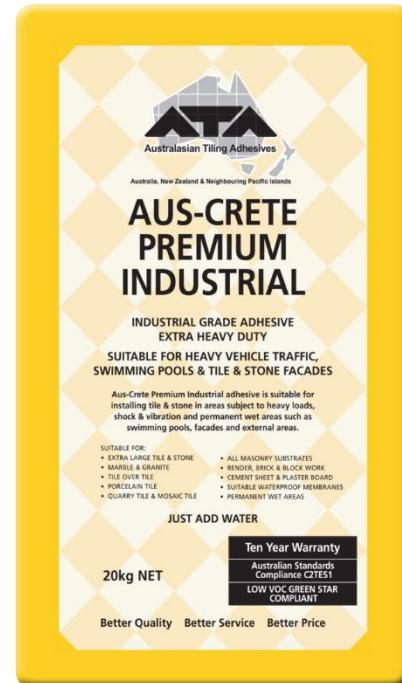
Aus-Crete Premium Industrial can be used as a slurry bond coat for adhering screeds and mortars. It can also be used as a slurry bond coat over semi dry screeds for installing tile and stone in the conventional mud bed method.

USES

- EXTRA LARGE TILE AND STONE
- MARBLE AND GRANITE
- PORCELAIN TILE
- QUARRY AND MOSAIC TILE
- TILE OVER TILE
- ALL MASONRY SURFACES
- RENDER, BRICK AND BLOCKWORK
- CEMENT SHEET AND PLASTERBOARD
- SUITABLE WATERPROOF MEMBRANES AND PERMANENT WET AREAS

COVERAGE (per 20kg bag)

6 x 6 mm trowel	10 x 10 mm trowel
8 – 10 m ²	6 m ²



TECHNICAL NOTES (AT 21°C)

OPEN TIME	30 MINUTES
POT LIFE	2 HOURS
INITIAL SET	8 HOURS
FOOT TRAFFIC	24 HOURS
HEAVY TRAFFIC	72 HOURS

TECHNICAL NOTES (AT 28 DAYS)

TENSILE STRENGTH (TS)	≥ 1.75 MPa
TS, 21 DAYS IMMERSSED	≥ 1.00 MPa
TS, 14 DAYS HEAT AGED	≥ 1.50 MPa
TRANSVERSE DEFORMATION	≥ 3.25 mm < 5.00 mm



TECHNICAL DATA SHEET

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. **Aus-Crete Premium Industrial** can be applied to damp surfaces.

MIXING

For best results mix **Aus-Crete Premium Industrial** 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 5 minutes before remixing just prior to use. Mix approximately 20kg of **Aus-Crete Premium Industrial powder** with approximately 5.5L of water, 1L for every 3.7kg 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 Premium Industrial** 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 stonework. 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. 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 stonework and must conform to Australian Standards. Install expansion/control joints at regular intervals in the tile or stonework as per Australian Standards.



TECHNICAL DATA SHEET

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-Flex WPM C3** as a crack suppression bandage prior to tiling.

FOR USE AS SLURRY BOND COAT

When using **Aus-Crete Premium Industrial** as a slurry bond coat ensure that adequate surface preparation has taken place on all substrates. Apply the pre-mixed **Aus-Crete Premium Industrial** slurry bond coat to the prepared surface with a broom or trowel, approximately 2-3mm thick. Immediately apply the prepared mortar and tamp into place. Do not apply mortar to the slurry bond coat if it has dried or skinned. Porous substrates will speed up the drying process. **Aus-Crete Premium Industrial** can be applied to damp substrates. When applying **Aus-Crete Premium Industrial** to a semi dry screed for traditional mud bed installations, apply the slurry bond coat with the flat side of the trowel to an even thickness over the levelled mortar. Place the tile or stone into the wet slurry bond coat and tamp, beat or vibrate into place. Clean all the excess slurry bond coat from the work promptly as the work proceeds. If required, **Aus-Crete Premium Industrial** can be applied to the back of the tile or stone, with the tile or stone then placed directly into the fresh mortar.

CLEANING

Remove excess adhesive with clean water while work proceeds. Hardened adhesive will be difficult to remove and will often require mechanical means.

GROUTING

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 Premium Industrial** will cover approximately 6m² with a 10x10mm trowel and 8-10m² with a 6x6mm trowel.

SHELF LIFE/STORAGE

- 12 months when stored in original unopened packaging
- To be stored in a dry area off the ground
- Do not store in direct sunlight

PRECAUTIONS & LIMITATIONS

This adhesive may not be suitable for water sensitive tile or stone 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 requiring extended time prior to grouting and traffic.

Do not use below 4°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 STATEMENT

ATA guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

ATA will replace the product free of charge when purchased from any legally verifiable source and where the product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to ATA.

The consumer is responsible for any expenses incurred in making a claim.

Conditions of Sale contain a limited warranty against manufacturing defects.

A claim form can be requested by email or phone.

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