

Acrytile® ULTRA C2ES2

Premium grade high tensile strength adhesive suitable for demanding applications

- ▶ Full external use
- ▶ No mess one-part formulation
- ▶ Superior adhesion (C2)
- ▶ Extended open time (E)
- ▶ Flexible (S2)
- ▶ Facade work
- ▶ Suitable for water immersion & wet areas
- ▶ Use in swimming pools and spas



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DESCRIPTION

Acrytile® ULTRA is a high tensile strength, flexible, one part, cement based ceramic tile adhesive formulated for adhering most types of tiles in demanding applications.

Acrytile® ULTRA provides exceptional workability and performance and surpasses the requirements of AS 4992.1-2006 for classification as a C2ES2 adhesive. Acrytile® ULTRA can be used to adhere both wall and floor tiles and is suitable for interior and exterior use.

KEY FEATURES

- Superior adhesion (easily surpasses the AS requirement for C2 in standard conditions)
- Flexible
- Use internal and external
- Just add water (no on-site gauging of messy admixtures)
- Extended open time
- Suitable for use in swimming pools and spas

RECOMMENDED APPLICATIONS

Suitable for adhering most types of tiles including ceramic, mosaic, vitrified, porcelain, terracotta, quarry and natural stones with the exception of moisture sensitive varieties including green marble. Use over concrete, cement render & screeds, brickwork and block work, fibre cement sheeting, plasterboard, approved waterproofing membranes and existing tiles. Check colour of adhesive for suitability when adhering translucent tiles. Suitable for use in both internal and external applications.

SURFACE PREPARATION

Surface preparation should be carried out as per AS 3958.1-2007. All surfaces to be adhered to must be clean, dry and free from any impurities, laitance or contaminants which may adversely inhibit adhesion.

Concrete Surfaces: Concrete surfaces should have a wood float finish and be allowed to cure for a minimum of 28 days prior to tiling. The surface should be true and level with adequate fall to drains where required. Remove any concrete sealers or curing compounds from the surface. Steel trowel finished concrete should be mechanically abraded to remove any laitance and provide an adequate key.

Cement Renders & Screeds: Render should consist of one part cement to four parts sand. Leave render and cement screeds with a wood float finish and allow to cure for a minimum of 1 day prior to tiling. Render should not be less than 5 mm in thickness unless polymer modified. Check with render manufacturer for suitability.

Porous Substrata: Porous surfaces must be treated with one coat of Acrytile® PRIMER prior to the commencement of tiling. Non-porous substrata should not be primed.

Plasterboard & Fibre-Cement Sheet: All plasterboard and fibre cement sheet substrata must be fixed in accordance AS 3958.1-2007. Plasterboard jointing compound must be primed with Acrytile® PRIMER prior to the application of adhesive

Existing Tiles: Existing ceramic tiles must be securely fixed. At least 80% of the tile surface must be mechanically abraded to provide an adequate key for the adhesive.

MOVEMENT JOINTS

Provide movement joints where required in accordance with AS 3958.1-2007 section 5.4.5.

PREPARATION OF ADHESIVE

Acrytile® ULTRA will require approximately 4.2 litres of water per 15 kg of adhesive powder. Add measured amount of water to a clean mixing vessel and slowly add the adhesive powder whilst stirring. Continue to add powder until a thick, creamy, lump-free paste has been achieved. Allow the freshly prepared mix to stand for 5 minutes to ensure polymer activation and thorough wetting has occurred then briefly re-stir prior to use. Do not re-mix the adhesive once it has started to set as this will reduce the adhesive bond strength. Adhesive should not slump when combed out using the appropriate size notched trowel.

APPLICATION

All tiling work must be carried out in strict accordance with AS 3958.1-2007. Ensure the back of the tiles to be adhered are free from dust or any materials which may inhibit adhesion. Adhesive should be spread using the appropriate size notched trowel. For wall tiles up to 150 mm x 150 mm use a 6 mm notched trowel. For wall and floor tiles larger than 150 mm x 150 mm use

a 10 mm or 12 mm notched trowel. Spread no more than 1 square metre of adhesive at a time and do not lay tiles if adhesive has skinned. Finished bed thickness should be a minimum of 2 mm for wall tiles and 4 mm for floor tiles. Ensure all tiles are fully supported by adhesive and that no voids are present. Remove a tile from time to time to ensure complete coverage. Clean away any excess adhesive from the joints and face of the tiles whilst the adhesive is still wet. Allow to dry undisturbed for 24 hours prior to foot traffic and grouting.

GROUTING

Prior to grouting, the tiled surface should meet the requirements of AS 3958.1-2007 clause 5.4.6. Grout after 24 hours as per AS 3958.1-2007 clause 5.7. Joint widths should be between 1.5 mm - 5 mm for wall tiles and 3 mm - 10 mm for floor tiles. Check grout for suitability.

COVERAGE

20 kg of powder will cover approximately 9 m² with a 6 mm notched trowel and approximately 4.5 m² with a 12 mm notched trowel.

OPEN TIME

Approximately 30 minutes in 22°C at 50% relative humidity. Open time will be effected by ambient temperature. Always check for skinning on the adhesive surface prior to the application of tiles.

POT LIFE & SET TIME

Approximately 2 hours at 22°C at 50% relative humidity. Final set will be achieved at 24 hours at 22°C with 50% relative humidity.

CLEAN UP

Remove excess adhesive from tile face and tools using a damp cloth whilst material is still wet. Wash all tools in warm soapy water immediately after use.

PACKAGING

Acrytile® ULTRA is supplied in 15 kg plastic lined multi-walled paper sacks.

SAFETY

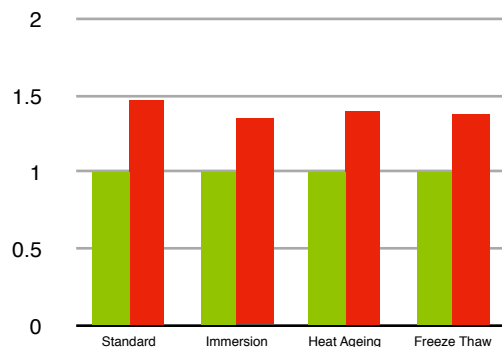
Acrytile® ULTRA is manufactured using portland cement which contains respirable crystalline silica as an impurity. Always use dust masks, skin and eye protection whilst handling and mixing this product. Refer to MSDS for further information. The contents of this bag are heavy. Refer to latest occupational health and safety practices when handling to minimise the risk of injury.

SHELF LIFE

This product can be stored unopened above floor level in a cool dry place for up to 12 months.

TECHNICAL DATA

Tensile strength 28 days standard conditions	1.47 Mpa
Tensile strength 7 days standard conditions & 21 days immersion	1.35 Mpa
Tensile strength 14 days standard & 14 days at 70°C	1.40 Mpa
Tensile strength freeze/thaw	1.38 Mpa
Deformability	5.6 mm
Tensile strength 28 days after 30 minutes open time	0.5 Mpa
Classification according to AS4992.1-2006	C2ES2



■ AS requirement for C2 ■ Acrytile® ULTRA

PRODUCT LIMITATIONS

- Not suitable for use with moisture sensitive stone or tiles including green marble.
- Suitable for use only in temperatures ranging between 5 - 30°C. Open time can be greatly reduced in warmer weather. Ensure adhesive has not skinned prior to application of tiles.
- Do not apply over waterproofing membranes or primers unless approved by MAC.
- Not suitable for use directly over timber flooring.

DISCLAIMER

The information contained herein with regard to the contents of this package and its subsequent use is provided in good faith and is believed by MAC to be true and reliable. Any advice, recommendation, or assistance is provided by MAC without liability or responsibility. It is the user's responsibility to test the suitability of this product for use under specific conditions. The manufacturer will not be held liable for claims arising from misuse, incorrect storage, handling and or preparation of this product. Any liability for material proven faulty will be limited to the supply of replacement goods only. Always check the most current technical data sheet for updates prior to use.

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