

Packaging



Mixing



Application



Uses



Used underwater

Substrates

Gypsum
Plasterboard
Cement sheet
Concrete,
Brick, Block
Cement render

Two-pack, white, flexible, premium tile adhesive

Description

Ultima is a two-pack, white, premium grade, internal and external, floor and wall adhesive with exceptional adhesive performance.

Ultima can be used on many different substrates such as, metal, glazed ceramic tiles, steel trowelled concrete.

Uses

A two-pack thick or thin bed internal and external, floor and wall flexible adhesive for fixing over most substrates, e.g. concrete, heated concrete slabs, cement render, fibre cement sheets, plasterboard, existing properly prepared ceramic tiles and vinyl and **Construction Chemicals** waterproof membranes, as well as many other difficult-to-bond-to substrates. Do not use over timber floors. **A test area is recommended to determine the suitability of the substrate.**

Features

- **C2** high bond strength, exceeds 1MPa
- **S1** high deformation, exceeds 2.5mm
- **E** extended open time
- **T** non-slump
- Exceptional adhesion – suitable over a number of difficult-to-bond-to substrates
- Ideal for glass mosaic tiles
- Waterproof – suitable for use in constant water immersion applications
- Flexible – accommodates normal building movement
- White – suitable for translucent tiles
- High initial adhesion – reduces the need for support in wall tiling applications

Coverage (Approximate)

5L liquid plus 12.5kg powder will cover 3.5-4m² using a 10mm notched trowel and 6-7m² using a 6mm notched trowel, over a true surface.

Performance Data

Exceeds the performance requirements of AS4992.

Tensile Adhesion Strength

2.93MPa (28 days)

Specification

The ceramic tile adhesive will be a waterproof, flexible, white, two-pack adhesive that conforms to AS4992 and has a minimum tensile adhesion strength of 2.93MPa such as **Ultima** manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturer's application instructions.

Surface Preparation

The surface to be tiled must be firm and clean, free from laitance, dust, waxes, paint and other contaminants. Prime building boards, cement sheets, porous surfaces and concrete with **Primebond**. Concrete swimming pools to be primed with **Primax**.

Existing Ceramic Tiles

Ultima can be used to directly stick tiles without mechanical grinding the glaze, on clean, sound, glazed and unglazed existing, internal tiles. Surfaces must first be thoroughly cleaned by cleaning/scrubbing with sugar soap and an industrial grade scourer, rinsed thoroughly and allowed to dry. In permanently wet and external areas prime with **Primax**.

A guide to tile joint sizes

Internal minimum 2mm, external minimum 4mm or as specified by the tile manufacturer and AS3958.1-2007. **Do not** fix tiles with tight joints. When grouting joints of less than 3mm we recommend mixing the grout with **Primebond**. Greater care is needed to place the grout deep into joints before pointing the joints to compact the grout surface.

Mixing

Mix 5 litres of liquid with 12.5kg powder. Add the powder to the liquid while mixing with a slow speed electric drill to obtain a lump-free creamy consistency. Pot life is approximately 1 to 2 hours, depending on temperature. Allow to stand for 5 minutes and restir before use.

Application

Apply the adhesive using the appropriate notched trowel (as per AS 3958.1).

As a guide	Notched trowel
Mosaics	6mm
200mm x 200mm	8mm
300mm x 300mm	12mm
400mm x 400mm	12mm + back buttering
Walls	10mm

The final bed thickness must not be less than 2mm for walls and 3mm for floors, to accommodate movement. Spread about 1 metre at a time. Tiles must be set in place while the adhesive is still wet on the surface. Press tiles firmly into the adhesive using a slight twisting motion. Tiles must be firmly bedded into the adhesive so no voids occur beneath the tiles. **Do not** spot fix.

Set Time

Approximately 24 hours, depending on temperature, humidity and surface porosity. Allow longer for dense tiles. Swimming pools allow a minimum of 7 days before filling @ 23°C @ 50% relative humidity. Allow longer in cooler conditions.

Grouting

Grout after adhesive has set, approximately 24 hours (trafficable after 48 hours). Use **Kemgrout** mixed with **Primebond**. Immersed applications, i.e. pools, grout with **Kemgrout Sanded** mixed with **Primebond** or **Epegrout**.

Safety Precautions

Non-toxic but contains cement which contains silica. Wear gloves and appropriate respirator. Further information for this product is contained in the Material Safety Data Sheet. Refer; www.constructionchemicals.com.au

Shelf Life

1 year powder / 2 years liquid.



www.constructionchemicals.com.au

Adelaide Phone (08) 8243 7888

Darwin Phone (08) 8947 1811

Perth Phone (08) 9356 9999

Auckland Phone (09) 273 5444

Brisbane Phone (07) 3271 2944

Melbourne Phone (03) 9761 4711

Sydney Phone (02) 9756 3533

Kuala Lumpur Phone (603) 5122 2522