

ULTRALITE D2

Ready for use, brilliant white, lightweight water resistant adhesive with high yield, for ceramic wall tiling



CLASSIFICATION IN COMPLIANCE WITH UKCA & CE EN 12004

UltraLite D2 is a dispersion adhesive (D), improved (2) with, reduced slip (T) and extended open time (E), classified as D2TE.

WHERE TO USE

- For installing porous bodied ceramic tiles and mosaics onto internal walls.
- For use in both commercial and domestic shower/wet areas.
- For use with slightly larger format porous bodied ceramic tiles up to 350 mm x 350 mm or a variant of i.e 500 mm x 200 mm.

Some application examples

- Fixing tiles to plasterboard, plaster walls, tile backer boards.
- Well bonded painted surfaces.
- Existing tile surfaces.
- Render walls.
- MAPEI waterproofing membranes.

TECHNICAL CHARACTERISTICS

UltraLite D2 is a light weight water dispersion adhesive based on acrylic resins, lightweight fillers and additives. UltraLite D2 is a ready to use paste and has excellent initial grab. The viscosity of the paste enables easy trowelling on to vertical surfaces.

RECOMMENDATIONS

- Recommended for use on internal walls only.
- Not recommended for areas subject to constant immersion, such as swimming pools.
- Not for use with natural or agglomerated stone materials.
- Not for use on non absorbent surfaces with non absorbent tiles.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be consistently flat, free of oil, grease, wax, crazing, loose particles, laitance and also free from residual or permanent water. Substrates must be dry and cured in accordance with BS 5385 part 1. Substrates must be strong enough to take the imposed load and be fully supported so as not to deflect. Any paint must be sufficiently bonded to the substrate.

Applying the product

Apply the adhesive to the substrate using a suitable notched trowel, ensuring that a minimum coverage of 65% for tiles in dry service areas or 100% for tiles installed in wet service areas. The adhesive can be combed on the substrate and back buttered on the reverse of the tile but the finish of the adhesive thickness must not exceed 5 mm.

Installing the tiles

The open time of the adhesive in normal temperatures and humidity is approximately 30 minutes. The tiles must be fixed in this time. If the adhesive forms a skin then the adhesive should be removed and fresh applied. Apply the tiles into the wet adhesive and compress firmly with a twisting/sliding motion to ensure good contact with tile, adhesive and wall. Randomly remove tiles to ensure good coverage of adhesive is achieved.

GROUTING & MOVEMENT JOINTS

Tiles measuring up to 350 mm x 350 mm fixed with **Ultralite D2** can be grouted after 12 hours. Drying times are dependent on humidity, temperature and porosity of materials. Movement joints must be sealed with an appropriate MAPEI Sealant such as **Mapesil AC**.

READY FOR USE

Ready for use after 7-14 days dependent on surfaces and tiles used.

CLEANING

While fresh the **Ultralite D2** can be removed from tiles, tools and hands with water.

CONSUMPTION

Ultralite D2 is a high yield dispersion adhesive and can cover up to 8-12 m² per unit. Coverage is dependent on size of tile installed and size of notch used on trowel.

PACKAGING

12.5 kg bucket.

STORAGE

Ultralite D2 can be stored for up to 12 months in the original packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.co.uk.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values) – UKCA 12004 – EN 12004 - C2F S1	
TECHNICAL DATA	
Consistency:	light paste
Colour:	brilliant white
Density:	1.2
Dry solids content (%):	70
Brookfield viscosity (Pa·S):	700

COMPOSITION AND PROPERTIES OF THE MIXTURE (at +23°C - 50% R.H.)	
Application temperature range:	+5°C to +35°C
Open time:	approx. 30 minutes
Adjustability time:	40 minutes
Grout: – tiles: up to 350 mm x 350 mm:	after 12 hours
Ready for use:	after 7 days
Application temperature:	from +5°C to +40°C
Open time:	> 30 minutes
FINAL PERFORMANCE CHARACTERISTICS	
Shear adhesion strength according to EN 1324 (N/mm ²): – initial shear strength:	> 1
Shear adhesion strength after heat ageing exceeds minimum requirements of BS EN 12004 Type D2T:	> 1
Shear adhesion after water immersion:	> 0.5
Resistance to moisture:	good
Resistance to ageing:	excellent
Resistance to solvents and oils:	poor
Resistance to acids and alkalis:	poor
Temperature when in use:	from -30°C to +90°C
Deformability:	deformable

N.B.

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that the end users satisfy themselves that the product and conditions are suitable for the envisaged application.

No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. End users should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.co.uk

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project related document, but the

resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.co.uk.
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