

Brickbond L.O.



Brick Adhesive

Description

A two component, solvent free, low odour epoxy bonding paste specifically designed for use with cut bricks of all types where bonding is required. The material is characterised by its excellent bond strength and very low tendency to carbonate, even under adverse conditions. Brickbond L.O. is naturally grey in colour, however it can be mixed with a small amount pigment or brick dust to produce an excellent colour match adhesive. Economical and simple to use, the exact amount required can be mixed as and when needed. Brickbond L.O. has been designed to comply with requirements of EN 1504 Part 4.

Advantages

- Simple 1:1 by volume mixing ratio
- No special tools or equipment required
- High bond strength
- Solvent free
- Non-shrink
- Excellent resistant to a wide range of chemicals
- Easily pigmented to colour-match bricks
- Excellent adhesion to brick, concrete, stone, asphalt & metal

Technical Information

Mixing ratio (by volume)	1:1
Workable life	45 minutes @ 20°C
Initial cure	3 hours @ 20°C
Full cure	3 days @ 20°C
Specific gravity	1.4
Compressive strength	>30 MPa
Tensile strength	10 MPa
Flexural strength	25 MPa
Bond strength to brick	Exceeds brick strength
Bond strength to concrete	>2.0 MPa

Mechanical testing shows that the strength of the Brickbond L.O. joint exceeds that of the integral brick strength, resulting in the failure within the brick.

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Nufins, Kingston House, 3 Walton Road, Pattinson North, District 15, Washington, Tyne & Wear. NE38 8QA 23 0086-CPR-774186	
EN 1504-4 Structural bonding product	
Compressive strength	≥30 MPa
Modulus of elasticity in compression	≥2000 MPa
Dangerous substances	Complies with 5.4

Surface preparation

All surfaces should be visibly dry, sound, clean, free from dust oil, grease and all surface contaminants.

Mixing

Small amounts can be mixed by gloved-hand, using a trowel or spatula on a spot-board. It is essential to mix vigorously, ensuring the hardener is thoroughly blended. Mix on a clean non-absorbent surface until smooth and uniform, in colour and consistency. Colour-matching pigments may be added in the quantity required.

To ensure complete and thorough mixing of larger quantities, mix in equal parts 1:1 by volume, using a variable speed drill and gate paddle.

Always replace tin lids firmly between uses.



Technical properties of Brickbond L.O

Properties	Standard	Performance Requirements	Declared Value
Appearance			Grey Resinous Paste
Aggregate size			<0.1 mm
Layer thickness - minimum			0.1 mm
Consistence			Non-slump
Working time @ 23°C			45 minutes
Density			1400 kg/m ³
Application temperature			5-35°C
Compressive strength	EN 12190	≥30 MPa	>30 MPa
Modulus of elasticity in compression	EN 13412	≥2000 MPa	>3500 MPa
Flexural strength	BS 6319-3		25 MPa
Modulus of elasticity in flexure	EN ISO 178	≥2000 MPa	>2000 MPa
Tensile strength	BS 2782-3		10 MPa
Shear strength	EN 12615	≥6 MPa	>6 MPa
Glass transition temperature	EN 12614	≥40°C	>40°C
Adhesion - concrete	EN 1542		>2.0 MPa
Adhesion after freeze/thaw (50 cycles with salt)	EN 13687-1		>2.0 MPa
Adhesion after thunder showers (30 cycles)	EN 13687-2		>2.0 MPa
Adhesion after dry cycling (30 cycles)	EN 13687-4		>2.0 MPa
Total shrinkage	EN 12617-1	≤0.1 %	<0.1 %
Carbonation resistance	EN 13295	$d_k \leq$ ref. concrete	$d_k <$ ref. concrete
Capillary absorption	EN 13057	≤0.5 kg/m ² .h ^{0.5}	<0.5 kg/m ² .h ^{0.5}

Technical data shown are statistical results and do not correspond to guaranteed minima.

Tolerances are those described in appropriate performance standards.

All testing performed at 23°C, unless otherwise stated.

1 N/mm² = 1 MPa

1 kN/mm² = 1 GPa

Mixing (continued)

For full pack mixing, scrape out the entire contents of hardener and base components into a suitably sized mixing vessel.

Mix by planetary mixer or similar, until smooth and uniform, in colour and consistency. Care should be taken to prevent unmixed material remaining on sides and the base of the mixing vessel.

All steel surfaces should be degreased together with removal of rust, scale and oxide layers. Blast to Swedish Standard SA2.5 on critical situations. Galvanised steel should be treated with Mordant Solution and all residues removed.

Only mix sufficient material as can be used within the working time.

Application Instructions

Mixed Brickbond L.O. should be firmly applied with a trowel or spatula onto both surfaces to be bonded. These can then be brought together and the excess material removed. Once bonded the unit should be left undisturbed until the Brickbond L.O. has set.

Cleaning

Clean mixing and application tools immediately with Nuwash.

Packaging

Brickbond L.O. is available in 10 litre units (approximate coverage is 10m² @ 1mm).

Nuwash is available in 5 & 20 litre drums.

Storage

The shelf life is 12 months when stored unopened in dry, normal conditions and away from direct sunlight. Protect from frost.

If stored at temperatures of 10°C or below the containers should be warmed prior to use as this will greatly aid the mixing procedure.

Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the very latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

Limitations

Do not apply below 5°C.

Disclaimer

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty. The user will be deemed to have satisfied themselves independently as to the suitability of our products for their own particular purpose. In no event shall Nufins be liable for consequential or incidental damages.

Users must always refer to the most recent issue of the Technical Datasheets, copies of which will be supplied on request.

Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.