



Metolux[®]



A2 FIRE RATED BRICK ADHESIVE

METOFIX CB-A2

2 Part Solvent Free Epoxy Specialist Brick Adhesive

Product Description

This 3-1 ratio solvent free, **A2 FIRE RATED** epoxy based adhesive is designed for the bonding together of cut brick surfaces (covered by A1 Fire Rating) , or as a brick slip adhesive up to a maximum of 450g/m² in relation to applications requiring A2 Fire Rating certification.

The product also benefits from extensive LUCIDEON durability testing recommending minimum 60 years life.

Benefits

The benefits of Metofix CB-A2 include:

Single unit packaging (resin & hardener), easy to mix and easy to apply, non shrink epoxy, excellent chemical resistance, adheres to almost any surface, excellent sealant qualities, cures down to 5°C, re-usable unit, strong container, easy to pigment & ready to use.

Uses

As an adhesive for:

Adhesion of brick slips to MGo boards, Cement-bonded particle boards and Stainless steel lintels and Stainless Steel Units.

For the **Cut and Bonding of bricks**, and bonding of brick slips to concrete structural units, **covered by Reaction to Fire Classification : A1**

Can be used for face-up applications.

Application

Mixing Ratio

3:1 by weight of Resin + Hardener compounds

Mixing Method

Remove the hardener 'dish lid' to reveal the resin component beneath. Either mix the two components thoroughly to the correct ratio (3 resin to 1 hardener) or mix the entire contents of the pack, until an even and consistent mix is achieved. Mixing is best carried out on a smooth board using a wide blade scraper. If necessary the product can be mixed using a slow speed mechanical mixer.

Application Method

Apply by trowel, spatula or scraper with a maximum dose rate of 450g/m². Ensure adhesion takes place while the product is still mobile and tacky. Components should be supported during curing to prevent slippage.

Tool Cleaning

Use a solvent based thinner on tools on uncured material only.

Gel / Cure Times

Temp °C	Working Times @ Different Ambient °C for 100g mass of mixed product								
	0	5	10	15	20	25	30	35	40
Gel Time (mins)	360	270	225	145	90	60	45	30	26
Cure Time (mins)	2880	1800	1020	720	360	210	180	80	50

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System Information

Coverage	Product coverage for the 15 kg units at an application rate of 450g/m ² is approximately 33 m ² .
Preparation	The applications surfaces must be sound, clean and dry and free from oil, grease, rust or surface water wherever possible. Smooth surfaces such as steel should be abraded and roughened beforehand with a wire brush, to provide a suitable surface for the adhesive to key onto. Always check substrate quality e.g. Concrete surfaces must be in excess of 28 days old.

Application Conditions

Substrate	Minimum substrate temperature +5C - +30C Max.
Ambient	Minimum ambient temperature +5C - +30C Max.
Material	Minimum material temperature +5C - +30C Max.
Damp Surface	Ensure that the product is worked well into all areas when applying to damp.

Product Data

Nature	Smooth Paste.
Colour	Activator : Dark Grey Base : Light Grey Combined : Medium Grey
Packaging	Polypropylene Container 5kg or 15kg (3.2 Litres or 9.6 Litres mixed product)
Storage & Shelf Life	18 Months from Date of Manufacture. Storage between +5°C and +25°C Avoid contact with direct sunlight. Storage must be in dry conditions. Packaging must remain airtight at all times.

Technical Data

Chemistry	Epoxy Resin Formula
Density	1.57 kg / litre at 25°C mixed.
Layer Thickness	Maximum application rate is 450g/m ² . Metofix CB-A2 should be applied in such a way that the thickness of the adhesive will be 1mm or less, after the two surfaces are pressed together for bonding.

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Mechanical & Physical Properties



Compressive Strength 24 Hours @ +20°C - 60 N/mm² - Tested to EN ISO 604 / ASTM 695

Flexural Strength 24 Hours @ +20°C - 33 MPa - Tested to EN ISO 178 / ASTM 795

Tensile Strength 24 Hours @ +20°C - 22 N/mm² - Tested to EN ISO 527 / ASTM 638

Bond Strength 24 Hours @ +20°C - 4 MPa - X-HEAD

E-Modulus Compressive - TBD N/mm² (24 hrs @ 20°C) EN ISO 527 / ASTM 638

Testing & Approvals

Approval Standards

Effectis

Classification of reaction to Fire Test Method - EN 13823 : 2020

Classification of reaction to Fire Test - BS EN 13501 : 2018 - A2

SMOKE PRODUCTION s1 FLAMING DROPLETS d0

Warrington Fire EN 15725 : 2023 Cut and Bond Special Shape Brick glued with Metofix CB-A2 adhesive - Reaction to Fire Classification : A1

Warrington Fire EN 13501 : 2018 Cut and Bond Special Shape Brick glued with Metofix CB-A2 adhesive Reaction to Fire Classification : A1

Lucideon

EAD 040287-00-0404

Pre-Fabricated Brick Arches - 60 years Lifespan

“Part 1: Report UK223632/Ref. 1 - Structural and Environmental Testing of Chemfix Products Ltd.’s Prefabricated Arch Products.”

“Part 2: Report UK223632/Ref. 2 - Desk Top Study for 60-Year Durability of Chemfix Products Ltd’s Prefabricated Arch Products and Brick to Brick Bonded samples.”

IMPORTANT: The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.

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