



BRICK ADHESIVE



METOFIX 3-1

2 Part General Purpose Solvent Free Epoxy Building Adhesive



Product Description

This 3-1 ratio solvent free, general purpose building adhesive is designed for 'face-up' applications. It is designed primarily for the decorative brick industry for use on lintels, arches chimneys and brick slips. The product has a unique packaging system which houses the resin and hardener in one container, the hardener housed in the dish lid.

Benefits

The benefits of Metofix 3-1 include:

Single unit packaging (resin & hardener), easy to mix and easy to apply, non shrink epoxy, excellent chemical resistance, excellent structural characteristics, 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 a structural adhesive for:

Adhesion of brick slips to MDF (medium density fibreboards) or GRP (glass reinforced plastic) boards. Bonding cut bricks and pavers and the fixing of brick slips to cast concrete structural units, stainless steel or powder-coated lintels, cement-bonded particle board or GRP panels under factory conditions. Bedding In (eg floor tiles), gap & crack filling in voids, grouting, ideal for "face-up" applications.

Application

Mixing Ratio

3:1 by volume 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 minimum thickness of 1mm. 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

System Information

Coverage	Product coverage for the 5 kg units at an applied thickness of 1 mm is approximately 3.8 m ² for both Metofix 3-1 and Metofix 3-1 GRP.
Preparation	The applications surfaces must be sound, clean and dry and free from oil, grease, rust or surface water wherever possible. Smooth surfaces should be abraded beforehand. 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 (3.8 Litres or 11.5 Litres mixed product)
Storage & Shelf Life	24 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	1.3 kg / litre at 25°C mixed.
Layer Thickness	Minimum thickness 1mm application. Layers above 30mm build up in stages, observing the relevant gel time between stages.

Metolux

Mechanical & Physical Properties

Compressive Strength 24 Hours @ +20°C - 76.03 N/mm² - Tested to EN ISO 604 / ASTM 695

Flexural Strength 24 Hours @ +20°C - 32.68 MPa - Tested to EN ISO 178 / ASTM 795

Tensile Strength 24 Hours @ +20°C - 24.43 N/mm² - Tested to EN ISO 527 / ASTM 638

Bond Strength 24 Hours @ +20°C - 11.0 MPa - X-HEAD

E-Modulus Compressive - 18212 N/mm² (24 hrs @ 20°C) EN ISO 527 / ASTM 638

Testing & Approvals

Approval Standards



BBA - Agreement Certificate : 12/4893 - For bonding cut bricks and pavers, fixing of brick slips to cast concrete structural units or GRP panels under factory conditions. Also on-site for the replacement of damaged brick slips.

Tested by CERAM to : EN772-22 (April 2004) Freeze Thaw Cycles -15°C to 25°C, 10 cycles every 24 hours up to a maximum 100 cycles.
Results - Following 15,50 & 100 exposure cycles - No Damage Noted.

Important

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.