



**RAPID CURING BRICK ADHESIVE**

# METOFAST 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. This rapid curing formula is suitable for on site repairs. (curing within one hour). 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 Metofast 3-1 include:

One hour curing, single unit packaging (hardener & catalyst), 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 or GRP boards, bonding of concrete materials. Brick & Mortar or Stone, Ceramic, Tile or Glass elements, All metals incl, Iron, Aluminium, Copper etc. Marble, wooden structures. Structural bonding of post-tensioned precast concrete bridge segments. Sealing joints between concrete segments. For use in segment by segment erection. Bedding In (eg floor tiles), gap & crack filling in voids, grouting, ideal 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. Mix the two components equally and thoroughly to the correct ratio 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)	45	40	30	22	13	9.5	7.5	6	5.5
Cure Time (mins)	1440	1320	1020	600	105	60	40	35	35



Once the unit is mixed the material should be spread onto a suitable surface to dissipate any heat generated and prolong the working life. Caution! Large amounts of mixed material left unattended will generate high temperatures. Care should be taken when handling.



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## System Information

Coverage	2m <sup>2</sup> @ 1mm Thickness. Visit <a href="http://www.metolux.co.uk">www.metolux.co.uk</a> for usage calculator.
Preparation	The applications surfaces must be sound, clean and dry and free from oil, grease, rust or surface water. Smooth surfaces should be abraded beforehand. Always check substrate quality e.g. Concrete surfaces must be in excess of 28 days old.

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### 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	Not recommended for application to damp surfaces.

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## Product Data

Nature	Smooth Paste.
Colour	Activator : Dark Grey Base : Light Grey Combined : Medium Grey

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Packaging	Polypropylene Container 5kg (4 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.

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## Technical Data

Chemistry	Epoxy Resin Formula
Mixed Density	1.25 kg/litre at 25°C mixed.
Layer Thickness	Minimum thickness 1mm application. Layers above 30mm build up in stages, allowing any heat generated to dissipate.

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## Mechanical & Physical Properties

Compressive Strength                      24 Hours @ +20°C - 48.80 N/mm<sup>2</sup> - Tested to EN ISO 604 / ASTM 695

Flexural Strength                      24 Hours @ +20°C - 27.96 M/pa - Tested to EN ISO 178 / ASTM 795

Tensile Strength                      24 Hours @ +20°C - 18.00 N/mm<sup>2</sup> - Tested to EN ISO 527 / ASTM 638

Bond Strength    24 Hours @ +20°C - 6.0 M/pa - X-HEAD

E-Modulus                      Compressive - 14337 N/mm<sup>2</sup> (24 hrs @ 20°C) - EN ISO 527 / ASTM 638

Flexural Modulus                      24 Hours @ +20°C - 1643 M/pa - Tested to EN ISO 178 / ASTM 795

## Testing & Approvals

Approval Standards                      ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies. The EN prefix relates to “European Norms” as prescribed by the European Committee for Standardization.

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.