MADE IN BRITAIN

*PACKAGING MADE FROM MINIMUM 50% RECYCLED PLASTIC

Metolux®

METOBOND 1-1

HIGH VISCOSITY SPECIALIST BRICK ADHESIVE

CERAM TESTED

Product Description

An Epoxy Building Adhesive, Metolux Metobond has a thixotropic mixed consistency. It is designed predominently for vertical and overhead applications and is offered as an extremely powerful structural adhesive with high chemical resistance. 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 Metobond 1-1 include:

Single unit packaging (hardener & catalyst), easy to mix and easy to apply (thixotropic), suitable for use in damp conditions, non shrink epoxy, high level of chemical resistance, excellent structural characteristics, adheres to almost any surface, superior sealant qualities, cures down to 5ºC, Re-usable unit, strong container, easy to pigment & ready to use.

Uses

As a structural adhesive for:

Concrete materials, Brick & Mortar or Stone elements, all metals incl, Iron, Aluminium, Copper etc. Marble, wooden structures, adhesive or repair applications, bedding in (eg floor tiles), gap & crack filling in voids, grouting, ideal for horizontal (overhead) or vertical use.

Application

Mixing Ratio

1:1 by volume of Resin + Hardener compounds

Mixing Method

Remove the hardener ‘dish lid’ to reveal the resin component beneath. Mix the two components equally and thoroughlly 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

	Working Times @ Different Ambient °C for 100g mass of mixed product								
Temp °C	**0**	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Gel Time (mins)	115	100	60	48	45	33	25	19	18
Cure Time (mins)	2040	1860	1200	960	570	420	390	360	330

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System Information

Coverage	Visit www.metolux.co.uk 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.

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.

Product Data

Nature	Smooth Paste.
Colour	Activator : Dark Grey Base : Light Grey Combined : Medium Grey
Packaging	Polypropylene Container 3kg or 10kg (2 Litres or 6.7 Litres mixed product)
Storage & Shelf Life	24 Months from Date of Manufacture. Storage between +5ºC and +25ºC Avoid contact with direct sunlight. Storage must be in dry conditions. Packaging must remian airtight at all times.

Technical Data

Chemistry	Epoxy Resin Formula
Density	1.5 kg/litre at 25ºC mixed.
Layer Thickness	Minimum thickness 1mm application. Layers above 30mm build up in stages, observing the relevant gel time between stages.

Mechanical & Physical Properties

Compressive Strength	24 Hours @ +20ºC - 58.02 N/mm^2 - Tested to EN ISO 604 / ASTM 695
Flexural Strength	24 Hours @ +20ºC - 24.63 MPa - Tested to EN ISO 178 / ASTM 795
Tensile Strength	24 Hours @ +20ºC - 19.00 N/mm^2 - Tested to EN ISO 527 / ASTM 638
Bond Strength	24 Hours @ +20ºC - 4.8 MPa - X-HEAD
E-Modulus	Compressive - 7496 N/mm^2 (24 hrs @ 20ºC) - EN ISO 527 / ASTM 638

Testing & Approvals

Approval Standards	Tested by CERAM to : EN772-22 (April 2004) Freeze Thaw Cycles -15ºC to 25ºC, 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.

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