Metolux®

HEAVY DUTY REPAIR

METOCRETE

2 Part General Purpose Epoxy Heavy Duty Repair Compound

Product Description

This heavy duty repair compound is designed for repairs to high traffic areas for example ramps, walkways, steps and floors. This rapid curing formula is suitable for same-day site repairs. (curing within one hour). The product has a unique packaging system which includes a pre-mixed aggregate component for fast mixing.

Benefits

The benefits of Metocrete rapid include:

Single unit packaging, easy to mix and easy to apply, non shrink epoxy formula , high levels of chemical resistance, excellent structural characteristics, once hardened is a stronger surface than cured concrete, very high surface abrasion resistance. cures down to 5ºC,
re-usable unit, strong container, ready to use.

Uses

As a structural compound for:

Same-day repairs to areas of broken concrete including steps, ramps, walkways and corridors, and all other high traffic areas. Is also used for bedding-in and large crack/gap filling. Often applied solely as a protective surface for areas of high chemical concentration.

Application

Mixing Ratio

As supplied. To ensure correct results it is recommended to mix complete units.

Mixing Method

Empty the bottle containing the “hardener” component into the grey coloured aggregate. Mix using a wide bladed metal scraper or a helical blending attachment on a low speed drill. Mix for around 4-5 minutes or until an even consistency is Achieved.

Application Method

Spread the product across the area to be repaired and lay out evenly using a steel float. A smooth finish can be Achieved by dampening the face of the float with a suitable solvent and using a semi-circular motion.

Tool Cleaning

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

Pot Life

	Working Times @ Different Ambient °C for 300g mass of mixed product								
Temp °C	**0**	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Gel Time (mins)	80	70	57	44	38	29	25	22	18
Cure Time (hours)	18	15	9	6.5	3	2.5	2	1.5	1

Metolux

System Information

Coverage	0.7m² @ 5mm Thickness. 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	Ensure that the product is worked well into all areas when applying to damp.

Product Data

Nature	Heavy Cemetitous.
Colour	Dark Grey

Packaging	Polypropylene Container 5kg (2.6 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
Mixed Density	1.90 kg/litre at 25ºC.
Layer Thickness	Minimum thickness 5mm application. Layers above 30mm build up in stages, observing the relevant gel time between stages.

Metolux

Mechanical & Physical Properties

Compressive Strength	24 Hours @ +20ºC - 60.00 N/mm^2 - Tested to EN ISO 604 / ASTM 695
Flexural Strength	24 Hours @ +20ºC - 23.55 M/pa - Tested to EN ISO 178 / ASTM 795
Tensile Strength	24 Hours @ +20ºC - 14.87 N/mm^2 - Tested to EN ISO 527 / ASTM 638
Flexural Modulus	24 Hours @ +20ºC - 9038 M/pa - Tested to EN ISO 178 / ASTM 795
E-Modulus	30170 N/mm^2 (24 hrs @ 20ºC)- Tested to EN ISO 527 / ASTM 638

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.