Metolux®

POURABLE GROUND REPAIR

Contains 58% RECYCLED Material

METOSET SF

2 Part General Purpose Styrene Free Pourable Resin

Product Description

A two part concrete repair resin & anchoring system, with extremely high strength in compression and tension making it ideally suitable for anchoring large bolts, starter bars, machinery installations & ground repair. Once mixed the formula can be poured into the pre-drilled hole, or the repair area, and has 'self levelling' properties which make it ideal for shuterring, and bedding-in of deep posts. Pre-mixed aggregate and hardener components allow for fast & safe mixing.

Benefits

The benefits of Metoset Pourable include:

Single unit packaging, easy to mix and easy to apply, styrene free for use indoors or outdoors (low odour), **made from 58% recycled material**, excellent structural characteristics, stronger than cured concrete, high surface abrasion resistance. cures down to 5ºC, re-usable unit, strong container, ready to use.

Uses

As a structural & repair compound for:

Repairs to large cracks in concrete requiring self-levelling characteristics and hard to reach areas. Bedding-in of coping stones, concrete units, steel, concrete or wooden posts. Anchoring of threaded steel bolts into solid surfaces, typically cementious surfaces.

Application

Mixing Ratio

As supplied. For optimum results we recommend mixing the complete unit.

Mixing Method

Remove the resin tin and cardboard dividing card from the package, stir the resin contents thoroughly prior to use. Combine all of the resin tin contents with the aggregate mix in the plastic unit and mix until an even consistency is Achieved. We recommend the use of a slow speed mechanical mixer for 2-3 minutes.

Application Method

Concrete repair: Remove all the debris and dust from the area to be repaired. Prior to application the area must be clean, dry and sound. Anchoring: Drill a hole to the correct diameter and depth. remove dust and debris from the hole by use of a steel brush and push pump. Anchoring bars should be free from oil, grease and flaking rust.

Tool Cleaning

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

Gel & Cure Times

	Working Times @ Different Ambient ºC for 100g mass of mixed product								
Temp ºC	**0****	**5****	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Gel Time (mins)	70	58	40	19	15	11	9	6.5	6
Traffic Time* (mins)	110	75	50	25	20	15	12	9	9

* Full Cure is Achieved after 24 Hours.
** Below 5 Degrees the product will naturally become more viscous.

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System Information

Coverage	0.8m² @ 5mm Thickness per 5kg. 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 - +40C Max.
Ambient	Minimum ambient temperature +5C - +40C Max.
Material	Minimum material temperature +5C - +40C Max.
Damp Surface	Ensure that the product is worked well into all areas when applying to damp.

Product Data

Nature	Liquid.
Colour	Light Grey.

Packaging	Polypropylene Container 5kg or 15kg (3.2 Litres or 9.6 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	Polyester Resin Formula
Mixed Density	1.55kg/ltr at 25ºC mixed.
Layer Thickness	Minimum thickness 5mm application. Layers above 30mm build up in stages, observing the relevant gel time between stages.

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Mechanical & Physical Properties

Compressive Strength	24 Hours @ +20ºC - 81.64 N/mm^2 - Tested to EN ISO 604 / ASTM 695
Flexural Strength	24 Hours @ +20ºC - 28.10 M/pa - Tested to EN ISO 178 / ASTM 795
Tensile Strength	24 Hours @ +20ºC - 15.00 N/mm^2 - Tested to EN ISO 527 / ASTM 638
Flexural Modulus	24 Hours @ +20ºC - 4366 M/pa - Tested to EN ISO 178 / ASTM 795
E-Modulus	Compresive 19029 N/mm^2 (24 hrs @ 20ºC) - Tested to EN ISO 527 / ASTM 638

Testing & Approvals

Approvals / 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.