

MasterEmaco[®] 2525 (Formerly known as Concessive 2525)

Solvent free epoxy binder, structural adhesive and general purpose primer.

DESCRIPTION

MasterEmaco 2525 is a solvent free, high performance, versatile epoxy binder that can be used to produce a range of epoxy resin based mortars or as a primer for both flooring and waterproofing products. **MasterEmaco 2525** can be applied to both dry and damp surfaces and adheres to most substrates after proper preparation.

RECOMMENDED USES

- Structural bonding of new to old concrete
- Production of epoxy resin mortars for floor toppings
- Production of epoxy resin mortars to grout bolt holes
- Steel bonding
- Rapid structural repair of concrete
- Grouting dowels
- Segmental bonding mortar
- Priming of concrete floors prior to applying Mastertop Flooring Systems and MasterSeal Membrane Systems to achieve structural bond

FEATURES AND BENEFITS

- **Adheres to wet or damp surfaces** - Wide application area from mortars to primers and adhesives.
- **Solvent free** - Low VOC and non-shrink
- **Pre-proportioned packaging** - No job site errors
- **Multi-purpose binder** - Many uses
- **Low viscosity** - Easy to apply as primer
- **High abrasion and chemical resistance** - Can be used as wearing surface
- **Approved to AS/NZS 4020:2002** - Suitable for contact with Potable Water
- **Cures hard at low temperatures** - Wide application range

PROPERTIES

Mixed resin and hardener only	@ 23°C
Compressive Strength 7 days	95 MPa
Flexural strength 7 days	40 Mpa
Tensile strength 7 days	60 MPa
Compressive Strength 24 hrs	58 MPa

Heat deflection temp	80°C
Compressive modulus	3.4 GPa
Bond strength	>2.5 MPa (concrete failure)
Abrasion Resistance ASTM C779	0.24mm/30 mins.
Mortar Performance (A+B+filler)	@ 23°C
Fluid Grout F1 Filler	
Compressive strength	80MPa
Tensile strength	50MPa
Flowable Mortar F1 Filler	
Compressive strength	75MPa
Tensile strength	42MPa
Mortar F1 Filler	
Compressive strength	64MPa
Tensile strength	36MPa

Chemical Resistance

MasterEmaco 2525 resists most common organic and inorganic acids in diluted form, also resistant to alkalis, water, oils, grease, etc.

	Part A	Part B	Mixed
Supply Form	Liquid	Liquid	Liquid
Colour	Clear	Amber	Amber
Mix Ratio			3:1 pbv
Density (Mixed)			1.1kg/L
Application Temperature: 4°C - 35°C			

APPLICATION

Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound concrete and made good with **MasterEmaco 2525** mortar. Conventional concrete curing compounds should be removed before application.



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Mixing

Proportion part kits accurately mixing only what can be used in less than 30 minutes. Thoroughly stir Part A, add Part B (3:1 parts by volume respectively) and blend thoroughly using a slow speed mixer fitted with a suitable paddle. When being used as a grout or mortar, only clean kiln dried sand may be mixed in. The maximum aggregate size should approximate to 1/3 of the minimum required depth. Add Mastertop X1 colour packs into floor screeds to ensure colour throughout flooring system. The following mix ratios are given as a guide. Consideration should be given to the volume of mortar and potential problems associated with exothermic reactions.

Application

The **MasterEmaco2525** mortar or grout may be placed on to the surface using standard grouting or trowelling techniques.

Note: The surface needs to be primed when using "dry" mortars. Use **MasterEmaco2525** Binder only to prime and apply wet on wet, when aggregate ratio is over 1-3, resin to aggregate. If using as a bonding material for new to old concrete or for adhering MasterTop 330 ensure that the **MasterEmaco 2525** is still tacking at time of new concrete or mortar is applied. If **MasterEmaco 2525** has the possibility to fully cure before the subsequent topping is applied when used as a primer, seed with F1 or F5 Filler.

Curing

Cure time will vary depending on the ambient temperature, quantity mixed and placed, and the rate of sand addition. **MasterEmaco 2525** will have fully cured after 7 days at 23°C.

Pot Life, ASTM C881: 2010, (minutes)	~30 @ 23°C ~120 @ 4°C
Compressive strength, 7 days, (N/mm ²)	70
Tensile Strength, ASTM C307:2003, Reapproved 2008, (N/mm ²)	14
Bond Strength (Pull Off by <i>Dyna Tester</i>), 7 days, N/mm ² , failure on concrete	> 6
Slant Shear Bond Strength, BS EN 12615: 1999, 7 days, N/mm ²	> 33

ESTIMATING DATA

For 1 litre of binder volume of F1 filler		Total Yield
Grout	2 litres	2.25 litres
Flowable Mortar	3 litres	3 litres
Mortar	4 litres	4 litres
Segmental bonding mortar		
Part A 3.75L	Part B 1.25L	Filler F1A 17.5Kg

Priming: coverage 4-6m²/litre.

Wet to dry bonding concrete: approximately 4m²/litre depending on profile of concrete.

PACKAGING

MasterEmaco 2525 comes in 5 litre kit sizes

SHELF LIFE

MasterEmaco 2525 can be stored in tightly closed original containers for 24 months at moderate temperature.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

Properties of Paste for Segment Precast Bonding

Mixed Density, (kg/L)	1.70 ± 0.1
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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF Construction Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

BASF Construction Chemicals offices in ASEAN

Singapore	Malaysia	Indonesia	Thailand	Vietnam	Philippines	Hong Kong
Tel: +65-6861-6766	Tel: +60-3-5628-3888	Tel: +62-21-526-2481	Tel: +66-2-664-9222	Tel: +84-650-374-3100	Tel: +63-2-889-4321	Tel: +852-24074291
Fax: +65-6861-3186	Fax: +60-3-5628-3776	Fax: +62-21-526-2541	Fax: +66-2-664-9267	Fax: +84-650-374-3200	Fax: +63-2-889-4361	Fax: +852-24067391

Website: www.ap.cc.basf.com