

# MasterEmaco® 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

## **PERFORMANCE DATA**

MasterEmaco 2525	
Compressive Strength:	@ 1D - 58 MPa
	@ 7D - 95 MPa
Compressive Modulus:	3.4 GPa
Flexural strength:	@ 7D - 40 MPa
Tensile strength:	@ 7D- 60 MPa
Heat deflection temp:	80°C
Compressive modulus:	3.4 GPa
Bond strength:	>2.5 MPa(concrete
-	failure)
Abrasion Resistance	0.24mm/30 mins.
(ASTM C779)	

MasterEmaco 2525 with Filler F1			
Consistency	Fluid Grout		
F1 Filler for 1L of Binder	2 Litres		
Compressive strength @ 7D	80MPa		
Tensile strength @ 7D	50MPa		
Consistency	Flowable Mortar		
F1 Filler for 1L of Binder	3 Litres		
Compressive strength @ 7D	75MPa		
Tensile strength @ 7D	42MPa		
Consistency	Thixotropic Mortar		
F1 Filler for 1L of Binder	4 Litres		
Compressive strength	64MPa		
Tensile strength	36MPa		

Paste for Precast Segment Bonding				
Mixed Density, (kg/L)	1.70 ± 0.1			
Pot Life in Minutes (ASTM C881: 2010): @ 23°C	30			
@ 4 <b>º</b> C	120			
Compressive Strength @ 7D (N/mm²):	70			
Tensile Strength @ 7D (N/mm²) ASTM C307 :	14			
Bond Strength @ 7D (N/mm²) (Pull Off by <b>Dyna Tester</b> ), :	> 6			
Slant Shear Bond Strength, @ 7D (N/mm²) BS EN 12615: 1999,	> 33			

#### **Chemical Resistance**

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

## **PROPERTIES**

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





# MasterEmaco® 2525

#### **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.

#### Mixina

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 color packs into floor screeds to ensure color 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.

## **ESTIMATING DATA**

Consistency	Filler Per 1L of Binder	Total Yield		
Grout	2 litres	2.25 litres		
Flowable Mortar	3 litres	3 litres		
Thixotropic Mortar	4 litres	4 litres		
Segmental bonding mortar				
PTA 3.75L	PTB 1.25L	Filler F1A 17.5Kg		

Priming: coverage 4-6m<sup>2</sup>/litre.

Wet to dry bonding concrete: approximately 4m<sup>2</sup>/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.

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#### MAP#MasterEmaco 2525 v1-0816

## STATEMENT OF RESPONSIBILITY

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