

MasterBrace P 3500

Epoxy primer for MasterBrace Laminate system

Material Description

MasterBrace P 3500 is a two component solvent-less epoxy penetrating medium viscosity primer.

Areas of Application

For use as a primer for the concrete prior to the use of the MasterBrace 4000 adhesive when used in conjunction with MasterBrace Laminates and for MasterBrace sheets and MasterBrace 4500 saturant.

Characteristics and Benefits

- Excellent adhesion to concrete substrate – ensures transfer of loads.
- Solvent free – low VOC and non-shrink.
- Pre-packaged – avoids on site errors ensuring quality control.
- Cures at low temperatures – suitable for a range of climates.

Properties

Bonding to concrete, pr EN 1542 (direct)	> 3.5 MPa (concrete failure)
Ultimate elongation, ASTM D638	3%
Tensile strength:	
direct, ASTM D638	> 12 MPa
by flexing, ASTM D790	> 24 MPa
Modulus of elasticity:	
tensile, ASTM D638	> 700 MPa
flexural, ASTM D790	> 580 MPa
Composition	Two-part Epoxy resin
Solids by volume	100%
Mixing ratio by volume:	3 ; 1 (A:B)
Specific gravity (mixed)	1.08 ± 0.024 kg/L
Colour	Transparent
Overall thickness	150 micron
coverage approximately-	6m ² /L
Recommended layers	1

Pot life	
7°C	1 hour
23°C	35 min
32°C	25 min
Tack-free	
7°C	9 hours
23°C	5 hours
32°C	3 hours

Application

Surface Preparation

Remove all grease, oil, dust residual curing compound, mould release agent or other contaminants that could impair adhesion.

Spalled concrete should be cut back to sound concrete and made good suitable MasterEmaco repair products.

Laitance should be removed preferably by captive shotblasting or hydro-jetting. Mechanical wire brushing may be appropriate for small areas. A surface profile of CSP 3-4 is desired.

Mixing

Mechanically mix Part A before adding Part B. When component B has been added, mix for approximately 2 minutes until a homogenous mix has been obtained.

Application of MasterBrace P 3500.

Apply MasterBrace P 3500 by brush or roller to the prepared substrate at a coverage of 6m²/L. If using as a primer for the MasterBrace sheet system apply the MasterBrace 4500 whilst the MasterBrace P 3500 is still tacky.

MasterBrace 4000 laminate adhesive should be applied to the MasterBrace P 3500 while it is still tacky. Do not allow to become tack free before application of the MasterBrace 4000. Otherwise, sand seed the MasterBrace P 3500 whilst wet and apply MasterBrace 4000 within 48 hours.

For further details see the Application Guide.

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Estimating Data

Typical consumption of 4-6 m² per L.

MasterBrace P 3500 Wet Film Thickness				
L	Thickness in mm /m ²	m ³	pails /m ³	m ² /mm thickness
5	5mm	(0.005)	200	5 m ²

Packaging

MasterBrace P 3500 is available in a 5L packs of 3.75L Part A and 1.25L Part B.

Storage & Shelf Life

MasterBrace P 3500 can be stored in tightly closed original containers for 24 months at a moderate temperature.

Precautions

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

Disclaimer

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STATEMENT OF RESPONSIBILITY

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