

DURA EP FLUID

TWO COMPONENT SOLVENT FREE FLUID EPOXY MORTAR

High resistance in repairs, anchoring, restoration of cracks in the concrete

Description : Two component, fluid epoxy mortar without solvents, based on selected resins and fillers

Usages: Ideal for use in castings for bonding old and new concrete and as a bonding agent for various materials. In addition it can be used for anchoring dowels and steel rebars on horizontal surfaces and as well as for the restoration of cracks in concrete elements



Advantages:

- High fluidity
- High mechanical strength
- Excellent adhesion on concrete and other substrates (mortar, wood, steel etc.)
- Easy to apply


Packaging /distribution : Metal containers (sets of A+B=1kg)
Component A (resin)=0.75kg, component B (hardener) = 0.25kg


Storage: Maximum storage time in intact packaging, dry environment and ambient temperature between 5°C - 30°C: 24 months from the production date

Specifications: EN 1504-4 & EN 1504-6

TECHNICAL DATA:

Compressive strength (EN 12190):	89.5 N/mm ² (requirement > 30 N/mm ²)
Shear strength (EN 12615):	
hardened concrete with hardened concrete	8.5 N/mm ² (requirement ≥ 6 N/mm ²)
hardened concrete with fresh concrete	7.1 N/mm ² (requirement ≥ 6 N/mm ²)
Maximum available time from mixing until bonding (EN 12189):	60 min
Workable life (EN ISO 9514):	45 min
Modulus of elasticity in compression (EN 13412) :	> 2000 N/mm ²
Glass transition temperature (EN 12614) :	> 40°C
Shrinkage for structural bonding agents (EN 12617-3):	≤ 0.1%
Coefficient of thermal expansion (EN 1770):	≤ 100 x 10 ⁻⁶ per K
Suitability for application and curing under special environmental conditions (EN 12615):	Conforms to specification
Adhesion (EN 12188):	Conforms to specification
Durability (EN 13733):	Conforms to specification
Reaction to fire (according to 5.5):	Euroclass F
Release of dangerous substances (according to 5.5):	Conforms to specification
Pull off (EN 1881):	Shift ≤ 0,6 mm for a load of 75 kN
Chloride content:	Conforms to specification

 14 DoP: 211 MAR-CPR 0906
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece EN 1504-4:2004 MARMOLINE DURA EP FLUID Structural bonding product, for bonded mortar or concrete, in buildings and civil engineering works

 21 DoP: 212 MAR-CPR 0906
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece EN 1504-6:2006 MARMOLINE DURA EP FLUID Anchoring product for strengthening concrete by installing reinforcing steel (rebars), in buildings and civil engineering works

APPLICATION:

Consumption: For thickness of 1mm approx. 1.55 kg of mixture per m² is required.

Application mode:

- The surface to apply DURA EP FLUID should be structurally sound, relatively smooth, dry, clean and free from any foreign particles.
- Mix each component separately and then mechanically mix component A and component B for about 2-3 minutes to achieve a homogeneous grey mixture.
- In case of bonding old and new concrete, casting should take place when the resin is still tacky
- Apply by: i) brush/spatula/airless spray (for bonding) ii) casting (for anchoring) iii) spatula/gun/injection equipment (for concrete repair).

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