

DURA EP FLUID

Two component solvent free fluid epoxy mortar

EN 1504-4

EN 1504-6

DESCRIPTION

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

FIELDS OF APPLICATION

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

PRODUCT INFORMATION

Packaging:

Metal containers (sets of A+B=1kg)

Component A (resin)=0.75kg

Component B (hardener) = 0.25kg

Storage conditions:

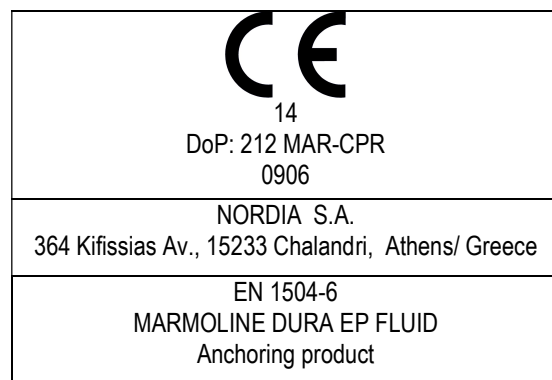
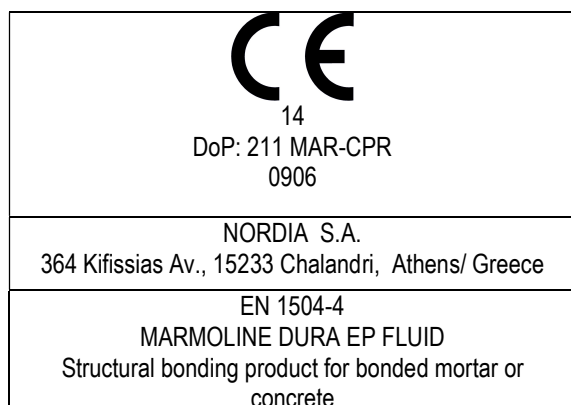
Maximum storage time in intact packaging, dry environment and ambient temperature between 5°C - 30°C: 18 months from the production date

CHARACTERISTICS/ADVANTAGES

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

TECHNICAL CHARACTERISTICS

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



DIRECTIONS OF USE

CONSUMPTION

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

APPLICATION

- 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).

COMPLIANCE WITH STANDARDS

CE marking and Declaration of Performance according to EN 1504-4 (Structural bonding product for bonded mortar or concrete) and EN 1504-6 (Anchoring product)

HEALTH, SAFETY & ENVIRONMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the

most recent Safety Data Sheet (SDS), copies of which are available on the company's website <https://marmoline.gr/> or upon request.

LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project.

All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the product has been traded and stored according to its instructions.

As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet.

The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet.