MARMOLINE
ADVANCED BUILDING MATERIALS

www.marmoline.gr
e-mail: info@nordia.gr
Tel.: (+30) 22950 22225
Fax: (+30) 22950 22120

EN 1504-5

DURA EP INJECTION

Solvent free two component epoxy injection resin

DESCRIPTION

Two component, solvent free, low viscosity, epoxy injection resin, based on selected resins and hardeners

FIELDS OF APPLICATION

Suitable for repairing concrete cracks, ensuring the structural integrity of the concrete. It can also be used for anchoring of reinforcement in cases of pre-stressed wires.

It is used for crack widths between 0.8 – 3 mm

CHARACTERISTICS/ADVANTAGES

- High mechanical and chemical strength
- High fluidity
- Low viscosity
- Excellent adhesion on concrete and other surfaces (mortar, wood, steel etc.)
- You can choose between two types, depending on the time of the year (summer – winter), due to the sensitivity of epoxy systems to temperature and humidity.
- Easy to apply
- Does not shrink.

PRODUCT INFORMATION

Packaging:

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

SUMMER:

Component A (resin)=0.65 kg,

Component B (hardener) = 0.35 kg

WINTER:

Component A (resin)=0.80 kg,

Component B (hardener) = 0.20 kg

Storage conditions:

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

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TECHNICAL CHARACTERISTICS

Adhesion by tensile bond strength (EN 12618-2)	> 3 N/mm^2
Adhesion by slant shear strength (EN 12618-3)	Monolithic failure
Non-volatile matter (EN ISO 3251)	> 95%
Shrinkage (EN 12617-2)	< 3%
Workability (EN 12618-2) - crack width - moisture state of the crack	 > 0,8 mm Dry/ non dry
Viscosity (Brookfield RV2)	WINTER: 140±28mPa s SUMMER: 320±64mPa s
Workable time (EN ISO 9514)	60 min
Tensile strength development for polymers (EN 1543)	Tensile strength >3 N/mm^2 within 72h at the minimum use temperature
Durability (EN 12618-2)	pass
Corrosion Behavior	Non corrosive

CE

DoP: 214 MAR-CPR
0906

NORDIA S.A.
364 Kifissias ave., 15233 Chalandri /Athens
14

MARMOLINE DURA EP INJECTION (SUMMER)
Concrete epoxy injection resin
Two-component epoxy system

EN 1504-5:2013
Fulfills the requirements for injection products
for force transmitting filling of cracks
U(F1)W(8)(1/2)(15/35)(0)

Adhesion by tensile bond strength	> 3 N/mm^2
Adhesion by slant shear strength	Monolithic failure
Non-volatile matter	> 95%
Shrinkage	< 3%
Workability - crack width - moisture state of the crack	 > 0,8 mm Dry/ non dry
Durability	pass
Corrosion Behavior	Non corrosive
Release of dangerous substances	pass
Glass transition temperature	> 40° C

CE

DoP: 217 MAR-CPR
0906

NORDIA S.A.
364 Kifissias ave., 15233 Chalandri /Athens
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MARMOLINE DURA EP INJECTION (WINTER)
Concrete epoxy injection resin
Two-component epoxy system

EN 1504-5:2013
Fulfills the requirements for injection products
for force transmitting filling of cracks
U(F1)W(8)(1/2)(8/22)(0)

Adhesion by tensile bond strength	> 3 N/mm^2
Adhesion by slant shear strength	Monolithic failure
Non-volatile matter	> 95%
Shrinkage	< 3%
Workability - crack width - moisture state of the crack	 > 0,8 mm Dry/ non dry
Durability	pass
Corrosion Behavior	Non corrosive
Release of dangerous substances	pass
Glass transition temperature	> 40° C

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DIRECTIONS OF USE

CONSUMPTION

WINTER: 1.1 kg of resin is required in order to fill a volume of 1 liter
SUMMER: 1.02 kg of resin is required in order to fill a volume of 1 liter

APPLICATION

- The surfaces to be repaired should be sound,dry, clean and free from any foreign particles
- Before the mixing of the two components, mix each component separately and then mix mechanically component A and component B, for about 2-3 minutes, to achieve an homogeneous mixture with an uniform colour.
- For the rehabilitation of concrete cracks, DURA EP INJECTION is applied by following the conventional technique for injectable resins using low-pressure pumps or by casting

COMPLIANCE WITH STANDARDS

CE marking and Declaration of Performance according to EN 1504-5 (Products and systems for the protection and repair of concrete structures - Concrete injection)

HEALTH, SAFETY & ENVIROMENTAL 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 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 .