

Adirepar R4

ADIREPAR R4 is a single-component, tixotropic product, with fast hardening and reinforced with polymeric fibers and corrosion passives whose application focuses on structural concrete repair even when it is necessary to repair large thicknesses.

Composition

Composed of crushed marble aggregates used in construction (EN 12620 and EN 13139), portland cement (EN 197-1 and UNE 80601) and additives of both organic and inorganic nature that give it excellent characteristics in adhesion and resistance, both initial and final.

Application field

- Suitable for use indoors as outdoors, in horizontal or vertical repairs even counter-gravity.
 - Reconstruction layer covers iron in reinforced or pre-tensioned concrete structures; balconies, cornices, lintels, pillars and beams.
 - Reconstruction of concrete steps, ornamental pieces, stone walls, etc.
 - Repair of surface defects such as coqueres or gravel nests.
 - Repair of horns of windows, doors, anchors of bolts, etc.
- Repair of pavements, ramps, canals and bridges because it has a great resistance to wear.

Instructions for use

Preparation of support: It is necessary to eliminate any remaining deteriorated, disconnected, non-solid or disgregable concrete in addition to remains of dust, paint or decofrant waxes. In case of having to protect the irons from the armor, it is essential to remove the thicker oxide remains, brush them and apply a uniform layer of ANTI-OXID ADIREPAR, this product protects the iron from possible future oxidation by means of a so-called anodic passive method. The support must be moistened 24 hours before application and repeat this humidity just before applying it.

Mixing preparation: Add 4.75-5l of water per bag of 25 Kg of product and paste for approximately 3 min with a low rpm electric pastry machine to prevent the formation of grumbles.

Sample Application: Apply the mortar with the help of a pallet or by projection with a thickness between 10 mm and 40 mm. Then the product must be compacted and towed with the help of a thin plain. To make thicker the first layer of mortar must be hardened about 30 min and apply another layer.

Recommendations for use

- The minimum application thickness must be 5 mm.
- Pasting small quantities to ensure the properties of the product at all times in the application.
- Do not apply on frozen supports, in the course of melting or if frost is expected.
- If the different layers have to be shrinked, they will have to be scratched to ensure adherence to each other.
- The application temperature must be between 5 °C and 35 °C on the support.
- Do not add cement, sand or other substances that can affect the properties of the mortar. En aplicaciones en les if there

is a strong insolation after repair, it is necessary to create an artificial shade and periodically moisten the surface, thus avoiding the formation of microfisures due to excessive hardening speed.

In mixed, dusty, very absorbent or exposed to the sun, it is necessary to carry out a pre-primation with FIXMAR LATEX with a maximum curing time of two hours.

Technical data

Product	Appearance	Gray			
	Class	R4			
	Types	PCC			
	Granulometry	0-2 mm			
	Density powder	1,74 g/cm ³			
Application	Water dam	18,5%			
	Water supply	4,75-5l by 25 kg bag			
	Fraguete time	3,5h			
	Shelf life	1h			
	Blending density	2,09 Kg/cm ³			
	Average performance	2,09 kg/m ² mm			
End Removals	Compression resistance	7 days	41MPa	>45 MPa a 28 days	EN 12190
		28 days	55MPa		
	Bending resistance	7 days	3,5Mpa	No requirement	
		28 days	5Mpa		
	Contained in chloride ions	0,01%	< 0,05%		EN 1015-17
	Accession	2,2 MPa	>2,0 MPa		EN 1542
	Carbonation resistance	3,5 mm	dk < (concret of control MC (0,45); dk = 9,4 mm)		EN 13295
	Elasticity module	21,3 GPa	>20 GPa		EN 13412
	Thermal compatibility: ice and melting cycles	2,8 MPa	>2,0 MPa after 50 cycles		EN 13687-1
	Capillary Absorption	0,2 Kg·m ⁻² ·h ^{-0,5}	<0,5 Kg·m ⁻² ·h ^{-0,5}		EN13057
Fire resistance	A1				

NORM CLASSIFICATION EN 1504-3:2005

Presentation and storage

Adirepar R4 is presented in 25 Kg paper bags. approx., and must be stored, a maximum of 12 months from the date of manufacture, in the original closed packaging, instead of covered, dry and ventilated.

NOTE: The information contained in this technical sheet is based on our experience and on trials carried out in specialized laboratories. The characteristics of the resulting product will depend on the correct preparation and application on site by the user. If these conditions are not met, the above characteristics will not be achieved.



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