

aplicaTec

Repar R R3 PCC

Mortar for structural repair of fast forging, single-component and without retraction.

CE marking as class R3 PCC according to EN 1504-3 (Products for the protection and repair of concrete structures).



GlobalEPD
A VERIFIED ENVIRONMENTAL DECLARATION



Vertical work



Fiber reinforced



Use in structural and not structural concrete



Fast



Thixotropic



Does not need a bonding bridge
Polymerically Modified "PCC"

DESCRIPTION

Fast-setting, one-component fiber reinforced thixotropic mortar, formulated based on special cements, duly selected aggregates, synthetic resins and organic and inorganic additives to improve the workability of the material during its commissioning, as well as its final properties.

APPLICATIONS

Surface repairs of structural and non-structural concrete. Filled with coqueras. Repairs to cornices, slab edges and balconies. Realization of half reeds. Fixings for window frames and pre-frames. Fine plaster on concrete and mortar. Suitable for repair work, according to principle 3, method 3.1 and 3.3 of the UNE-1504-9 standard and for structural reinforcement work, according to principle 4, method 4.4 of the UNE-1504-9 standard.

SURFACES

The surface will be sanitized by manual or mechanical means until the deteriorated concrete is eliminated. The surfaces must be firm, healthy, clean, free of oil, grease, paint, dust, cement laitance, etc. The absorbent surfaces will be previously moistened with water until saturation but without stagnation, the mortar will be applied when the surfaces acquire a matt colour. Surfaces such as concrete, cement plaster, brick and concrete blocks must have adequate cohesion for the product.

HOW TO USE

1. Knead with a mechanical mixer at low revolutions gradually adding 5 liters of clean water per 25 kg bag. for a period of 2 minutes.
2. Manually apply the product on the previously conditioned surface.
3. Fill the entire gap by applying the product in successive, well-compacted layers.
4. Proceed to its completion with a trowel, sponge or using the same application tool.
5. As soon as the product loses its workability, stop using it and prepare a new material for its application.



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PRECAUTIONS AND RECOMMENDATIONS

- Do not apply the product at temperatures below 5°C or above 35°C.
- Do not apply with forecast of rain or frost.
- The absorbent supports will become wet to saturation but without puddling.
- This product is ready to mix with water, do not add any kind of additive that could alter its properties.
- Under unfavorable conditions (low relative humidity, wind, sun, etc.) curing is essential for at least 24 hours after application.
- As it is a cementitious product, the use of rubber gloves is recommended.
- The tools and supplies will be cleaned with water immediately after use, if the product hardens they can only be removed by mechanical means.
- Conservation: 12 months from the date of manufacture of the product in adequate conditions of temperature and humidity.

PRESENTATION

Aplicattec Repar R is presented in 25 kg paper bags with anti-humidity plastic sheet on 1,000 kg pallets (40 bags).

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	VALUES	TESTING METHOD
Mixing water	20%	
Colour	Grey	
Compressive strength at 15 min	> 5,1 Mpa	UNE-EN 12190:1999
Compressive strength at 1 h	> 7,2 Mpa	UNE-EN 12190:1999
Compressive strength at 3 h	> 9,3 Mpa	UNE-EN 12190:1999
Compressive strength at 24 h	> 12,1 Mpa	UNE-EN 12190:1999
Compression resistance 28 D	>30 Mpa	UNE-EN 12190:1999
Flexural strength 28 D	> 6 Mpa	UNE-EN 12190:1999
Determination of Chlorides	< 0,01%	UNE-EN 1015-17:2000
Determination of Adhesion	>1,5 Mpa (B)	UNE-EN 1542:1999
Determination of Shrinkage	>1,5 Mpa	UNE-EN 12617-4:2002
Determination of Expansion	>1,5 Mpa	UNE-EN 12617-4:2002
Resistance to carbonation	< control concrete MC (0.45)	UNE-EN 13295:2005
Granulometry	< 1 mm	
Layer thickness	1-5 mm	
Consumption (dry mortar)	1.8 kg/m ² and mm of thickness	
Mixture pot life	< 10 min	

*This time may vary depending on environmental conditions (21°C and 60% H).

aplicaTec® SYSTEM STRUCTURE

Aplicattec Repar R, is part of the repair system that includes:

- **Aplicattec Armaduras:** anti-corrosion primer.
- **Aplicattec Reparación Epoxi 190:** epoxy-based adherent primer.
- **Gama Aplicattec Reparación R4 PCC:** mortars for structural and non-structural repair.
- **Aplicattec Reparación Fino R3 PCC:** structural and non-structural repair mortar, with sulphide-resistant properties, indicated for fine finishing.
- **Aplicattec Reparación Cosmético Claro R2 PCC:** mortar for non-structural repair as a leveler and pore sealer.
- **Aplicattec Reparación Steel:** electro-welded metal mesh for structural reinforcement.

NOTA

The recommendations for use are based on our knowledge and experience. The technical data have been obtained under normal laboratory conditions, and may vary depending on the conditions of use. Since the application conditions are not controllable on our part, the information on this sheet does not imply responsibility of the company.