

ARGOTEC REPARACION R4 FLUIDO

Fluid mortar for concrete structural repair



ARGOTEC REPARACIÓN R4 FLUIDO is a single-component, high-strength, non-shrink, polymer-modified mortar (PCC) for structural repair of concrete pavements, formulated with a mixture of hydraulic binders, selected aggregates, polymers, corrosion inhibitors and fibres that provide excellent adhesion and mechanical properties.

Presentation

- Appearance: Powder
- Colour: Grey
- Weight (kg): 25
- Yield (kg/m²): 18 kg/m² y cm de espesor
- Performance in mm thickness (kg/m²): 1,8
- Product code: 350144

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	25	-
Capillary Absorption (kg/m ² h ^{0.5})	W2	-
Adhesion (N/mm ²)	2	-
Mixing water (%)	17/19	-
Fresh flow characteristics (mm)	≤ 110	-
Classification according to UNE EN 1504-3	R4 Fluido (PCC)	-
Thermal compatibility. Part I. (N/mm ²)	2	-

Concept	Value	Standard
Thermal conductivity declared (W/mK)	1	-
Chloride ion content (%)	$\leq 0,05$	-
Bulk density (kg/L) _v ~ Value	$1,50 \pm 0,16$	-
Fresh mass density (kg/L) ~ Value	$1,80 \pm 0,16$	-
Maximum thickness (mm)	40	-
Minimum thickness (mm)	10	-
Grain size range (mm) ~ value	0/2	-
Elasticity module (GPa)	≥ 20	-
Water vapour permeability (m)	Clase I	-
Reaction to fire	A1	-
Compacting resistance 24 hours (N/mm ²)	≥ 15	-
Compacting resistance 28 days (N/mm ²)	≥ 45	-
Compacting resistance 7 days (N/mm ²)	≥ 30	-
Resistance to carbonation	Pasa	-
Retraction at 28 days (mm/m)	$\leq 0,1$	-
Hazardous substances	Ver HS	-
Application time (min)	30	-

Additional Technical Data

Concept	Value	Standard
CO2 permeability	Clase III	-

Scope

- Conservation and restoration of coats. Principle 7. Methods 7.1 and 7.2.
- Repair and regeneration of horizontal structural elements. Renovation of paving by patching. Do not use as a continuous paving.
- Structural concrete reinforcement works. Principle 4. Method 4.4.
- Concrete repair work. Principle 3. Method 3.1.

Advantages & Benefits

- Outstanding Adhesion
- Free of chlorides.
- Made of sulphur-resistant cement.
- Fluid.
- Rapid development of resistance.
- Fast drying.
- No retraction.

Descriptive Memory

The repair of concrete elements will be carried out with ARGOTEC REPARACIÓN FLUIDO R4 mortar, from the company Argos cement derivatives, class R4 according to the UNE EN 1504-3 standard, in accordance with principle 3 (method 3.1.), principle 4 (method 4.4.) or principle 7 (methods 7.1. and 7.2.). The fixing substrate shall be sound, clean, free of friable parts, fully hardened and have completed its time of dimensional variation. The construction joints shall be respected

Support

- Concrete paving.

Substrate preparation

- In any case, the specific requirements of EN 1504-10 must be taken into account.
- Metal elements, such as reinforcement, must be free of rust, dust, mortar residues or other materials that may impede adhesion or contribute to corrosion.
- Absorbent substrates must be wetted to saturation without puddling.
- The substrates must be clean and sound, free of grease, paint or other substances that would prevent proper adhesion.
- Very smooth substrates shall be mechanically treated to ensure proper adhesion of the mortar.
- A suitable adhesion primer shall be used on low-porosity surfaces.

Instruction for Use

- Mix ARGOTEC REPARACIÓN FLUIDO R4 with 4.25 L of clean water per 25 kg bag, preferably by mechanical means, until a homogeneous, creamy, lump-free mixture is obtained.
- Pour the mortar in thicknesses never less than 10 mm and never more than 40 mm. The application time is approximately 30 minutes depending on the environmental conditions.

Warning

- Do not apply when there is a risk of frost, rain, strong wind or direct sunlight.
- Do not apply below 5°C or above 30°C.
- Do not apply on plaster supports.
- Do not apply to plastic, wood, rubber, etc. surfaces.
- Do not use for continuous paving. Only for patching or filling holes.
- Protect the cool surface from direct sun, rain and especially draughts.

Handling, storage and preservation

- It is packaged in 25 kg multi-leaf paper bags with damp-proof sheets that allow it to be stored for 12 months in its original sealed packaging, safe from dampness.

Cleaning of Work Tools

Tools are easily cleaned with water before the adhesive has hardened.

Safety and hygiene

- Disposal of the product and its packaging must be carried out in accordance with current legislation and is the responsibility of the end consumer of the product.
- For any information concerning safety issues in the use, handling, storage or disposal of chemical residues, users should refer to the most recent version of the MSDS.

Notice

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