



Marking
CE
 Reference standard:
 EN1504-3

RESISTO FAST 10

RESISTO FAST 40

**CONTROLLED SHRINKAGE SEMIFLUID FIBRE-REINFORCED MORTAR,
 WITH QUICK SETTING AND HARDENING,
 FOR FIXING AND REPAIRING CONCRETE STRUCTURES
 AND/OR FIXING ROAD MANHOLE COVERS/DRAIN WELLS**

CHARACTERISTICS	ENVIRONMENTAL	METHOD OF USE	PRECAUTIONS
	ECO GREEN	RECYCLABLE	STORAGE IN A DRY PLACE
		MIX MECHANICALLY	

PROBLEM

RESTORING CONCRETE AND REPAIRING CONCRETE PAVING



Create patches on concrete or industrial road or airport surfaces in a short time with a quick setting and easy to use mortar. Manhole cover fixing.

SOLUTION

RESISTO FAST is a premix based on high-resistance quick-setting cements, synthetic resins, metal fibres, selected sands and additives that improve workability and performance to guarantee excellent resistance properties also in environments subject to particular stress. It is available in two versions:

- with ultra fast setting, i.e. 10 minutes: **RESISTO FAST 10**
 - with fast setting, i.e. 40 minutes: **RESISTO FAST 40**,
- which allow quick solutions for every need.



APPLICATION FIELDS

RESISTO FAST is used as mortar to restore concrete and concrete paving. Repairing airport paving, fixing manhole covers, wells, urban fixtures, fencing, signs, barriers, motorway joints, etc. For its high speed and resistance it is used for works where accessibility to the surface is required after a few hours. It may be used up to thicknesses of 10 cm. For greater thicknesses, it must be loaded with 4-10 mm gravel.

ADVANTAGES

- High workability
- Optimal chemical physical compatibility with the various types of support
- High execution speed and mass in operation

METHOD OF USE

• SURFACE PREPARATION

It is necessary to remove all loose and flaking parts through chipping, brushing and washing. Traces of oils, release agents, rust and dirt in general must be removed. Any uncovered iron must be cleaned and passivated with STRATOFER - INDEX. Saturate the substrate avoiding the layers of water, which will be possibly eliminated with compressed air or with a sponge.

• MIX PREPARATION

RESISTO FAST is prepared by mixing the product with right quantity clean water (see table). We advise using a mixer first putting in 2/3 of the necessary water, then gradually, the dry product and finally the remaining water. Mix for a maximum of 3 minutes until obtaining a

uniform mix with no lumps. Small quantities of mortar must be exclusively mixed with a mechanical drill avoiding preparing with a trowel. During preparation it is necessary to avoid excessive air bubbles.

• APPLICATION

Pour **RESISTO FAST** with a continuous flow into shuttering from one side only to encourage the removal of air. To prevent the shuttering from subtracting water from the mix, they must be treated with DISARMFER or DISARMWOOD - INDEX release agents. With **RESISTO FAST** it will not be necessary to subject the construction to mechanical vibrations, however we advise using wooden boards or iron rods to facilitate the sliding of the mortar also in areas

particularly difficult to reach. For floor laying, use a stainless steel spatula or a blade. Highly porous supports must be treated with PRIMER FIX - INDEX. Very smooth or poorly absorbent supports must be treated with PRIMER U - INDEX.

The restored surfaces must be carefully seasoned and if necessary protected from the heat, cold and dynamic actions for the duration of the setting period. During curing and especially in ventilated environments, the mortar must be constantly protected and wet to avoid quick dehydration. This treatment is carried out by spraying water on the surface during the first 24 hours. For applications with high thicknesses,

(See following)



TECHNICAL CHARACTERISTICS

	Standard	RESISTO FAST 10	RESISTO FAST 40
Appearance		Powder	Powder
Colour		Grey Black	Grey Black
Particle size		0÷3 mm	0÷3 mm
Apparent density	EN 1015-6	1.50 kg/L	1.50 kg/L
Mix water		18% ± 1%	18% ± 1%
Storage in original packaging in a dry place		12 months	12 months
Mix properties and workability	Standard		
Density of mix		2.20 kg/L	2.20 kg/L
pH of mix		approx 12	approx 12
Workable mix duration (*)		approx 5-10 minutes	approx 20 minutes
Waiting time - Setting time - at 20°C		10 minutes	30 minutes
Waiting time - Setting time - at 10°C		20 minutes	60 minutes
Waiting time - Setting time - at 5°C		30 minutes	110 minutes
Spreading the mix	EN 13395-1	150 mm (without shocks)	
Minimum application thickness		10 mm	
Maximum application thickness		oltre 100 mm (with 30% of gravel)	
Application temperature		+5°C ÷ +35°C	
Application		Manual	

Performance characteristics	Standard	Minimun requirement	Product performance
Class and type	EN 1504-3		R4 - CC
Resistance to compression - after 28 days	EN 12190	≥45 MPa	60 MPa
Resistance to compression - after 7 days			50 MPa
Resistance to compression - after 1 day			40 MPa
Resistance to compression - after 4 hours			29 MPa
Resistance to compression - after 2 hours			25 MPa
Resistance to bending - after 28 days	EN 196-1		9.0 N/mm ²
Resistance to bending - after 7 days			7.5 N/mm ²
Resistance to bending - after 1 day			7.0 N/mm ²
Resistance to bending - after 4 hours			6.5 N/mm ²
Resistance to bending - after 2 hours			6.0 N/mm ²
Elastic compression modulus	EN 13412	≥20 GPa	≥20 GPa
Chloride ion content	EN 1015-17	Absent	Absent
Bond strength	EN 1542	≥2.0 MPa	≥2.0 MPa
Thermal compatibility with frost-thaw cycles - Part 1	EN 13687-1	≥2.0 MPa	≥2.0 MPa
Capillarity water absorption	EN 13057	W1	w ≤ 0.5 kg/m ² ·h ^{0.5} - W1
Durability - Resistance to carbonation	EN 13295		Test passed
Thermal resistance - Operating temperature			-30°C ÷ +90°C
Fire reaction	EN 13501-1	A1	A1
Hazardous substances	EN 1504-3		In accordance with note in ZA.1

Test conditions: temperature 23±2°C, R.H. 50±5% and air speed in test area <0.2 m/s. **The data shown may vary depending on the specific work site conditions: temperature, humidity, ventilation, absorbency of the base coat.**

(*) The times indicated will be longer or shorter as the temperature drops or rises.

Compliant with the general principles defined in **EN 1504-9** - Principles for evaluating the use of products and systems.

(See previous)

add about 30% of 4-10 mm gravel.

• **COVERAGE**

Coverage is about 20 kg/m²×cm.

• **PRECAUTIONS**

- Use cold water in the summer and at 20°C in the winter.
- Application temperature from +5°C to +35°C.

- Do not add water when the mix starts to set.
- Do not add other materials such as cement, aggregates, additives.
- In hot weather, keep the surface of the laid mortar wet, avoiding that the product dries quickly, for at least 24 hours.
- In hot weather of +30°C, the workability time decreases to 20-30 minutes

- Do not apply on smooth surfaces.
- Clean the tools with water and the coated surfaces with a wet cloth immediately after laying.
- Do not expose the material to the sun in hot weather.
- Store in a dry place closed in the original packaging.

PACKAGING

25-kg-sacks

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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