

RESISTO UNIFIX RAPID

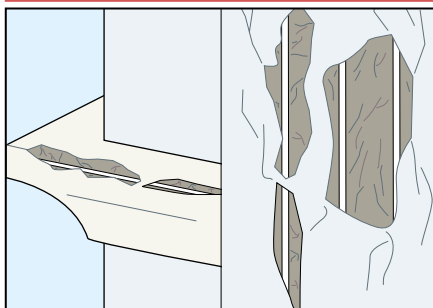
QUICK SETTING AND HARDENING FIBRE-REINFORCED THIXOTROPIC MORTAR WITH IMPROVED ADHESION AND COMPENSATED SHRINKAGE FOR STRUCTURAL REFURBISHMENTS OF CONCRETE AND SKIMMING OPERATIONS

GRANTS *LEED* CREDITS

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

PROBLEM

SKIMMING AND RAPIDLY CARRYING OUT SMALL REPAIRS ON CONCRETE



Problems of quick repairs, fixing and grouting often occur when carrying out various repair jobs on concrete and in normal building site work; what is needed consequently is a ready-to-use and quick-setting mortar with superior characteristics of workability and application.

SOLUTION

RESISTO UNIFIX RAPID solves all jobs that have to be carried out quickly and, thanks to its high level of workability, it can be used in numerous fields of application, vertically and horizontally, without the need for formwork.

RESISTO UNIFIX RAPID is a premixed powder, based on high-strength cement, selected aggregates with a maximum particle size of 0.5 mm, and additives which ensure excellent workability and adhesion to the substrate. RESISTO UNIFIX RAPID has a high thixotropic level for use in small and thick-layer repair jobs without the need for formwork. RESISTO UNIFIX RAPID has a fast setting time, high mechanical strength and elastic modulus suitable for repair work.



APPLICATION FIELDS

RESISTO UNIFIX RAPID is suitable for numerous applications for reinstating concrete, for repairing, fixing and reconstructing the layer covering the steel, and for levelling, skimming and grouting work.

ADVANTAGES

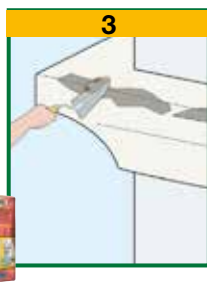
- High level of workability and easy application thanks to the ready-to-use formula that avoids possible site errors.
- High level of adhesion to the concrete substrate, elastic modulus and thermal expansion similar to concrete.
- High thixotropic level and compensated shrinkage, making it easy to apply without using formwork and without cracking problems.

METHOD OF USE

• PREPARING THE SUBSTRATE

Concrete surfaces must be prepared in order to achieve good bonding of RESISTO UNIFIX RAPID mortar.

It is therefore necessary to remove all loose particles and material which is lacking in solidity by chiselling, brushing or high pressure water cleansing. Remove any traces of oil, release agents, rust and dirt in general. Any exposed steel bars should be cleaned and passivated with STRATO FER or cement grout and STRATO 4900 (1).



Dampen the substrate without creating films of water; any which form can be eliminated using compressed air or a sponge.

• PREPARING THE MIX

RESISTO UNIFIX RAPID should be mixed with clean water (4.50 litres per 25 kg bag) (2).

To mix the product use a normal cement mixer or a slow speed mixer drill, adding RESISTO UNIFIX RAPID to previously poured water and mixing for 3 minutes. Do not mix for longer than it takes to obtain a perfectly smooth mix.

Remember that water is an important component of the mortar and is to be added in the recommended quantities so as not to deteriorate some of the product's properties, such as its mechanical strength, shrinkage etc.

• APPLICATION

The product is applied with a trowel and stainless spatula without the need for formwork (3). RESISTO UNIFIX RAPID can be used for small thick-layer and localised repairs.

• CONSUMPTION

About 18 kg/m² per cm of thickness.

• PRECAUTIONS

- Use cold water in summer and water at 20°C in winter.
- Application temperature from +5°C to +35°C.
- Do not add water once the mix has started to set.
- Do not add any other materials such as cement, aggregates and additives.
- In hot weather, keep damping the finished mortar surface for at least 24 hours to stop it from drying out too quickly.
- Do not apply on smooth surfaces.

(See following)

TECHNICAL CHARACTERISTICS

	Standard	RESISTO UNIFIX RAPID
Appearance		Powder
Colour		Grey
Particle size		0 to 0.7 mm
Apparent density		1.25 ± 0.10 kg/ℓ
Mix water		18% ± 1%
Storage in original packaging in a dry place		12 months
Mix properties and workability	Standard	
Density of mix	EN 1015-6	1.95 ± 0.10 kg/ℓ
pH of mix		about 12
Workable mix duration (*)		about 15 minutes
Setting time (*)		20 ± 5 minutes
Application temperature		+5°C to +35°C
Minimum application thickness		1 mm
Maximum application thickness		10 to 40 mm (small repairs)
Application		Manual
Performance characteristics	Standard	Product performance
Class and type	EN 1504-3	R3 - PCC
Compression strength - after 28 days	EN 12190	≥25 MPa
Bending strength - after 28 days	EN 196-1	≥5 N/mm ²
Chloride ion content	EN 1015-17	Absent
Bond strength	EN 1542	≥1.5 MPa
Thermal compatibility frost-thaw cycles - Part 1	EN 13687-1	≥1.5 MPa
Absorption of water by capillarity	EN 13057	w ≤ 0.5 kg/m ² ·h ^{0.5} - W1
Durability - Resistance to carbonation	EN 13295	Test passed
Elastic compression modulus		≥15 GPa
Thermal resistance - Operating temperature		-30°C to +90°C
Fire reaction	EN 13501-1	A1
Hazardous substances	EN 1504-3	in accordance to ZA.1 note

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)

- Thick applications must be limited to small repairs. In case of wide surfaces use either RESISTO TIXO or RESISTO REP.
- Straight after application, clean tools with water and the coated surfaces with a damp cloth.
- Do not expose the material to the sun in hot weather.
- Store in original closed packaging in a dry place.

PACKAGING

RESISTO UNIFIX RAPID

25-kg Sack

5-kg Can

• 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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