




RESISTO FLUID 07

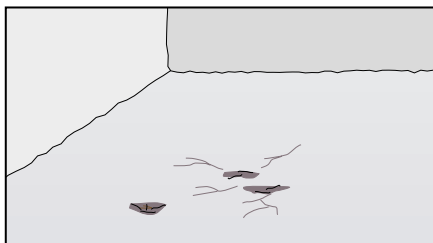
FIBRE-REINFORCED CASTABLE MORTAR WITH COMPENSATED SHRINKAGE
FOR STRUCTURAL REFURBISHMENTS OF CONCRETE AND LEVELLING
DAMAGED CONCRETE FLOORS

GRANTS *LEED* CREDITS

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

PROBLEM

CONCRETE REPAIRS IN FORMWORKS WITH LOW THICKNESS AND REINSTATEMENT OF CONCRETE FLOORS



It is easier to repair deteriorated concrete floors using castable mortars.

SOLUTION

RESISTO FLUID 07 is a ready-to-use premixed powder mortar with highly resistant cement base, selected aggregates, synthetic fibres and special additives.

With RESISTO FLUID 07 you can obtain a highly fluid mortar that can be cast in the floor and in the formworks.



APPLICATION FIELDS

The RESISTO FLUID 07 mortar is used to repair and reinstate the structures of concrete floors, pillars and beams.

ADVANTAGES

- High fluidity with low water/cement ratio.
- High mechanical resistance
- Excellent adhesion to the surface and to the reinforcement bars.

METHOD OF USE

• PREPARING THE SUBSTRATE

Remove any loose and brittle parts with a chisel, brush or water jet. Traces of oils, release agents, rust and dirt in general must be removed.

Any exposed bars must be cleaned and passivated in advance using STRATO FER. Soak the foundation without creating films of water, which can be possibly eliminated using compressed air or a sponge.

Rather porous surfaces shall be treated with PRIMER FIX. Rather smooth surfaces or surfaces that are not very absorbent shall be treated with a gripping mortar made out of STRATO 4900 plus cement and then cast fresh-on-fresh (or alternatively with PRIMER U).

• MIX PREPARATION

RESISTO FLUID 07 va mescolato con acqua pulita (4,5 litri per sacco da 25 kg). You are recommended to mix in a cement mixer (1) first pouring in 2/3 of the water required, then gradually adding the dry product and finally the remaining water. Mix for 3 minutes at the most until the mix is smooth and without lumps.

If just small quantities of mortar are required, mix exclusively using a mechanical drill mixer and do not prepare it with a trowel. Avoid incorporating too much air during preparation.

• APPLICATION

Pour RESISTO FLUID 07 continuously into the formworks from just one side so that any air is expelled. To prevent the formworks from drawing water from the mix, they shall be treated with DISARMFER or DISARMWOOD release agents.

With RESISTO FLUID 07 there is no need to vibrate the cast mechanically, but just to use wooden planks or iron bars to help the mortar into points that are particularly difficult to reach. To lay on floors, use a stainless steel spatula or squeegee (2).

The reinstated surfaces shall be cured carefully and if necessary protected against heat, cold and dynamic actions throughout the whole setting time. Durante la maturazione e specialmente in ambienti ventilati, la malta deve essere protetta e bagnata costantemente per evitare la rapida disidratazione. This treatment is performed by spraying mists of water on the surface over the first 24 hours of setting of the mortar or by

applying special anti-evaporating protections over the surface.

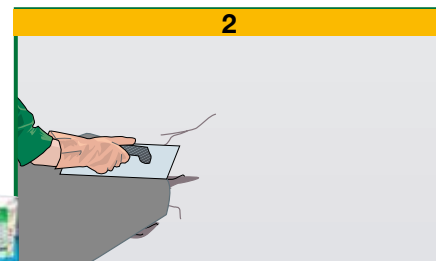
Maximum recommended thickness: 2 cm.

Greater thicknesses can be obtained by applying subsequent coats or using RESISTO FLUID FLOOR.

• CONSUMPTION

Approx 20 kg/m²×cm.

(See following)



TECHNICAL CHARACTERISTICS

	Standard	RESISTO FLUID 07
Appearance		Powder
Colour		Grey
Granulometry		0÷0.7 mm
Apparent density		1.50 ± 0.10 kg/ℓ
Mixing water		18% ± 1%
Storage in original packaging in a dry place		12 months
Mix properties and workability	Standard	
Density of mix	EN 1015-6	2.20 ± 0.10 kg/ℓ
pH mix		12
Workable mix duration (*)		about 60 minutes
Application temperature		+5°C ÷ +35°C
Spreading	EN 13395-1	260-280 mm (without vibrations)
Minimum application thickness		2 mm
Maximum application thickness		20 mm
Application		Manual
Performance characteristics	Standard	Prestazione prodotto
Class and type	EN 1504-3	R4 - PCC
Compression strength - after 28 days	EN 12190	≥45 MPa
Bending strength - after 28 days	EN 196-1	≥10 N/mm ²
Modulus of elasticity in compression	EN 13412	≥20 GPa
Chloride ions content	EN 1015-17	Assenti
Bond strength	EN 1542	≥2.0 MPa
Thermal compatibility frost-thaw cycles - Part 1	EN 13687-1	≥2.0 MPa
Capillarity water absorption	EN 13057	w ≤ 0.5 kg/m ² ·h ^{0.5} - W1
Durability - Resistance to carbonatation	EN 13295	Test passed
Thermal resistance - Operating temperature		-30°C ÷ +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, 50±5% R.H. and air velocity 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 stated times are longer or shorter as the temperature decreases or increases.

In accordance with the general principles defined in **EN 1504-9** - Principles for evaluation of the use of products and systems.

(See previous)

• PRECAUTIONS

- Use cold water in summer and water at approximately 20°C in winter.
- Application temperature from +5°C to +35°C.
- Do not add water once the mix starts to set.
- Do not add any other materials, such as cements, 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.
- In hot weather, when the temperature is higher than +30°C, the workability time is reduced to 20-30 minutes.
- Do not apply on smooth surfaces.
- Straight after application clean the 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 FLUID 07
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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