



BETON FLUID PRONTO

BETON FLUID PRONTO RAPID

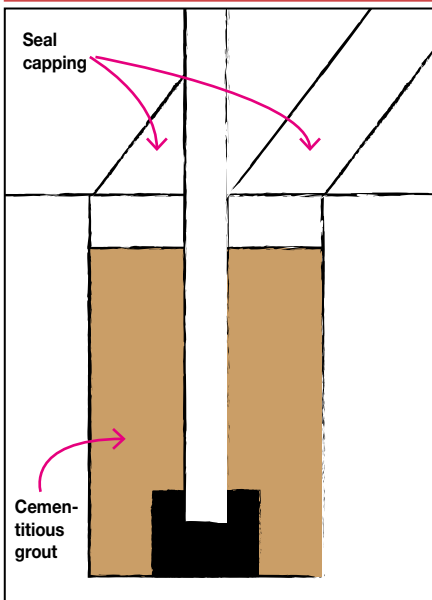
ANTI-SHRINKAGE MORTARS

Special mortar

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

PROBLEM

CONCRETE FOR FIXING AND INJECTIONS



Use a ready-to-use anti-shrinkage mortar for injections and fixing in concrete.

SOLUTION

BETON FLUID PRONTO and **BETON FLUID PRONTO RAPID** are special mortars that, when mixed with water, provide an anti-shrinkage injection grout.

BETON FLUID PRONTO, when mixed with suitable grain-size curve and water, is used to make grout and/or unsegregated shrinkage-compensating liquid concrete with very high mechanical resistance and excellent pumpability.

APPLICATION FIELDS

BETON FLUID PRONTO when mixed with water only, produces anti-shrinkage injection mortar to consolidate concrete, masonry and stone structures. It provides restorations with filling to thickness from 2 to 20 mm (width) and from 2 to 20 cm (depth).

BETON FLUID PRONTO is used to repair the structure of concrete elements such as:

- concrete slabs and decks;
- coatings of hydraulic structures subject to abrasion;
- special items.
- for fixing balustrades in U shaped channels.

BETON FLUID RAPID is used to block water flows, consolidate concrete structures, create waterproof tanks and also to recover rocks, land and structures.

When mixed with water only or diluted with a variable grain-size filler, according to the relevant use, it allows the creation of anti-shrinkage injection mortar to consolidate concrete, masonry and stone structures and draining asphalt.

ADVANTAGES

- Absence of shrinkage to prevent crack problems.
- Time and money savings compared to traditional solutions, thanks to quick setting and improved workability.
- High workability time.
- Fixing different items to the concrete.

METHOD OF USE

• PREPARING THE SURFACE

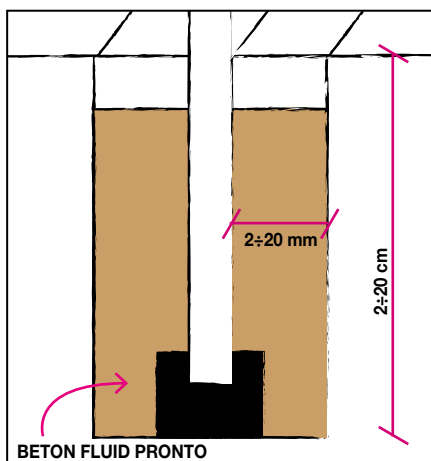
Remove any brittle and loose parts to obtain a sound concrete surface, eliminating all traces of oil, grease and dirt in general.

Roughen the smooth surfaces with mechanical tools and wash with pressurised water. Any reinforcement bars must be cleaned to a white metal finish and protected with STRATO FER - INDEX. If the section of the bars is insufficient after cleaning, replace them. Any infiltrations of water must be stopped so that they cannot wash away the mortar during the setting phase.

• PREPARING THE MIX

BETON FLUID PRONTO must be mixed with 18.5% clean water using suitable mixers until a lump-free homogeneous and fluid mix is obtained. Do not mix for more than 3 minutes, do not use high speed mixers and do not mix by hand. **BETON FLUID PRONTO RAPID** must be mixed with 18.5% clean water. The mixture must

be prepared by adding the powder to the inert material already wet with water.



• APPLICATION

The **BETON FLUID PRONTO** mix is applied by pouring into suitable formworks. While pouring, assist the sliding with iron bars and ensure that the mortar has filled all the cavities. Use an anti-curing agent if the weather is very hot or the work is directly exposed to the sun.

The **BETON FLUID PRONTO RAPID** mix is applied by pressure injection with suitable equipment. The mix may be applied by pouring. It is not necessary to vibrate the mortar. In case of very low temperatures, add BE-TONSAN - INDEX anti-freeze powder to the **BETON FLUID PRONTO** mix.

• COVERAGE

The yield is approximately 18 kg/m²×cm.

(See following)

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TECHNICAL FEATURES

	Standard	BETON FLUID PRONTO	BETON FLUID PRONTO RAPID
Appearance		Powder	Powder
Colour		White - Grey	White - Grey
Apparent density		1.40 ± 0.05 kg/L	1.40 ± 0.05 kg/L
Water mix ratio		18.5% ± 1%	18.5% ± 1%
Storage in original packaging in a dry place		12 months	12 months
Mix properties and workability	Standard		
Density of mix	EN 1015-6	1.80 ± 0.10 kg/L	1.80 ± 0.10 kg/L
pH of mix		approx 12	approx 12
Spread after shock movements	EN 13395-1	300 mm	300 mm
Workable mix duration (*)		approx 40 minutes	approx 20 minutes
Setting start time (*)		-	approx 30÷45 minutes
Setting end time (*)		-	approx 90÷120 minutes
Application temperature		+5°C ÷ +35°C	+5°C ÷ +35°C
Application		Manual or mechanical	Manual or mechanical
Performance characteristics	Standard	Product performance	Product performance
Compression strength - after 28 days		45 N/mm ²	40 N/mm ²
Compression strength - after 7 days		30 N/mm ²	30 N/mm ²
Compression strength - after 1 day		20 N/mm ²	25 N/mm ²
Bending strength - after 28 days	EN 196-1	8.0 N/mm ²	8.0 N/mm ²
Bending strength - after 7 days		7.0 N/mm ²	7.0 N/mm ²
Bending strength - after 1 day		4.0 N/mm ²	4.0 N/mm ²
Chloride ion content	EN 1015-17	≤0.05%	≤0.05%
Fire reaction	EN 13501-1	A1	A1

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.

(See previous)

• PRECAUTIONS

- Do not apply the product at temperatures below +5°C or above +35°C.
- Use cold water in summer and water at approximately 20°C in winter.
- Do not add any other materials to the mix such as cement, plaster, lime, etc.
- Do not add water once the mix starts to set.
- Do not wet the surface of the cast.
- Store in a dry place, protected from heat in summer and frost in winter.
- For further information or special uses, consult our technical department.

PACKAGING

BETON FLUID PRONTO

25-kg-Sack

BETON FLUID PRONTO RAPID

25-kg-Sack

• PER UN CORRETTO USO DEI NOSTRI PRODOTTI CONSULTARE I CAPITOLATI TECNICI INDEX • PER ULTERIORI INFORMAZIONI O USI PARTICOLARI CONSULTARE IL NOSTRO UFFICIO TECNICO •

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product in use. Considering the many possible uses and the possible interference of elements not under our control, we take no responsibility for the results. The Purchaser is responsible for establishing the suitability of the product for the envisaged use.

The data provided are indicative mean data for current production and may be changed and updated by INDEX at any time, without notice. The technical information and suggestions provided represent our best knowledge of the properties of the