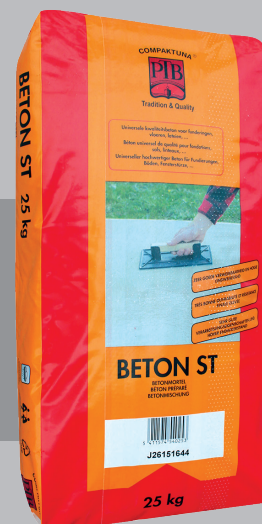




# P.T.B.-BETON ST

## Concrete mortar

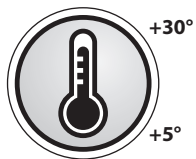


### Characteristics

P.T.B.-BETON ST is a dry, ready-to-use concrete mortar suitable for indoor as well as outdoor applications.

P.T.B.-BETON ST is made up of cement, choice quartz-sands, gravel, and high-quality additive substances. By the simple addition of water, one obtains a concrete of high final resistance, very good workability and exceptional flow.

P.T.B.-BETON ST is used for pouring reinforced and non-reinforced concrete constructions, floors, foundation slabs, lintels, spuds, tiles, decorative elements, and for the repair work on flooring.



#### TECHNICAL CHARACTERISTICS

Measured values in MPa (N/mm<sup>2</sup>)

Compressive strength	after 7 days	approx. 33
	after 28 days	
Flexural strength	after 7 days	approx. 5
	after 28 days	
Strength class according to NBN B15-100		approx. 6
Exposure class		C 30/35
		1 & 2

Mixing ratio	Consumption	Packaging
± 2.5 L to 3 L of water per 25 kg bag (± 10 to 12% water)	1 bag gives ± 13 l concrete mortar	25 kg PE
Colours	Processing time	Compressive strength
Grey	± 2h	after 28 days: ± 34 N/mm <sup>2</sup>

## Directions for use

### 1. Substrate

The application shall be carried out on a non-frozen, clean, well-maintained surface free of dust and oil spots and bits of loose substances. Porous surfaces need to be lightly dampened prior to application with a layering of COMPAKTUNA®(PRO)/ water solution (1/4) or with P.T.B.-PRIMER. When pouring floors, foundations, spuds, ...P.T.B.-BETON ST should be deposited on a plastic sheeting.

### 2. Processing

#### Adhesion layer

When pouring P.T.B.-BETON ST on an already existing concrete base or for the repair of floors, we recommend the advanced laying of an adhesive layer. This layer should be made up of 1 part COMPAKTUNA® (PRO) and 2 parts water. This COMPAKTUNA® (PRO)/water solution is added to a dry mix of half cement and half riversand until a malleable paste is obtained. The P.T.B.-BETON ST is poured onto the wet adhesive layer.

#### Concrete

P.T.B.-BETON ST is made up with  $\pm 10$  to 12% water, that is  $\pm 2,5$ l to 3L of water per bag of 25 kg, depending on the desired consistency. Per bag of 25 kg, pour the required volume of water in a mortar tub or a concrete mixer and slowly and evenly add the dry concrete mortar. Then mix the whole vigorously during 5 minutes until a lump-free, homogeneous mass is obtained. Let the concrete mortar settle for 2 minutes and then once again stir vigorously. During or immediately after pouring, stiffen the P.T.B.-BETON ST by vibrating it, using a vibrator or a solid stick. Level off the concrete layer with a smoothing board until the desired thickness is obtained. When the concrete has set, the surface can be levelled off with a plastic float using a circular motion. If desired, the final surface can be smoothed out with a mason's float.

## Remarks

- The processing temperature is from +5°C to +30°C (this applies to the surface as well to the ambient temperature around)
- It is necessary to protect drying concrete against frost, rain, high winds and exposure to direct sunlight. During the curing time, protect P.T.B.-BETON ST against drying out by covering the surface with a plastic sheet, a curing compound, or dampen it regularly with water.
- The processing time for P.T.B.-BETON ST: 2 hours following preparation.
- In order to achieve the desired result for certain types of jobs, it is necessary to provide for a casing and reinforcement during the preparation phase.
- Expansion joints in the base surface area need to be duplicated in the concrete coating.
- In keeping with NBN B 15-001, P.T.B.-BETON ST meets strength requirement C20/25 and exposure requirement 1 and 2.

## Packaging

P.T.B.-BETON ST is available in grey colour in polyethylene bags of 25 kg. The shelf life is 12 months in the original, closed packaging and kept dry.

