



BVBA POLYTECHNISCH BEDRIJF SPRL is EN ISO 9001:2000 certified  
 Certificate: BE 04/1432.QA



## Characteristics

As a specific composite mixture, **COMPAKTUNA<sup>®</sup> PRO**, is with its extraordinary properties a first for the building and general industries, a jump ahead on progress!

One may say that the principal assets of **COMPAKTUNA<sup>®</sup> PRO** are its extraordinary impermeability to water, its extremely good workability and its remarkable flexibility, all of it resulting in a readily processed mortar of high persistence.



## 3 properties

### A. ITS EXTRAORDINARY IMPERMEABILITY TO WATER

**COMPAKTUNA<sup>®</sup> PRO** is extremely appropriate for being applied in all cases where water is causing problems. For all sealing activities, such as cellars, water collection basins, inspection pits, foundation walls, swimming pools, terraces, showers, etc. **COMPAKTUNA<sup>®</sup> PRO** is the ideal product.

Also for cementing work, jointing, mortar and concrete which must satisfy high requirements for impermeability to water, **COMPAKTUNA<sup>®</sup> PRO** is the ideal solution: a strong water repellency can be obtained by merely applying some fine coatings of **COMPAKTUNA<sup>®</sup> PRO** spread/mortar.



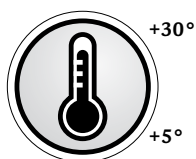
### B. ITS EXTREMELY GOOD WORKABILITY

Because of its well-considered composition, working with **COMPAKTUNA<sup>®</sup> PRO** mortar is much easier in general. **COMPAKTUNA<sup>®</sup> PRO** mortar is pliable and light, does not release any liquid and has a high persistence, so that vertical applications also can be carried out without problems. **COMPAKTUNA<sup>®</sup> PRO** improves the workability, leading to a more favourable water/cement ratio.



### C. ITS REMARKABLE FLEXIBILITY

Adding **COMPAKTUNA<sup>®</sup> PRO** to mortar gives that mortar, because of its remarkable flexibility, in certain cases the ability to adapt itself to new conditions such as deformations and expansion of material.



## Instructions for specifications (example)

Prescriptions in the specifications meant for Engineers, Architects and Engineering offices. The works must be carried out with an aqueous alkaline dispersion having a specific composite composition (**COMPAKTUNA<sup>®</sup> PRO**) meeting the following physical properties:

Viscosity	: 80 to 120 mPa.s
Solid	: 52 ± 1%
Density	: 1,1 minimum
pH	: 7 to 9

Prisms made of a mortar prepared with this dispersion show, when immersed in water, merely a water penetration of some mm after 3 months; this unlike the reference mortar, which is already saturated after 1 hour and other examined dispersions, of which all mortars are completely soaked with water after 48 hours. Because of the high water tightness, the addition of this dispersion improves the resistance of the mortar to chemical substances.

This dispersion confers the mortar a high resistance (compressure strength, bending strength, adhesion), and this when conserved dry and wet.

The dispersion must result in an exceptional flexibility in a mortar with the following composition: 100 g cement, 200 g sand and 100 g **COMPAKTUNA<sup>®</sup> PRO** in a 2 mm thick cement layer.

The work shall be carried out according to the mixing proportions and the correct prescriptions of the manufacturer.



	COMPAKTUNA®	COMPAKTUNA® PRO
Problems with water	★★	★★★★
Watertightness for cellars, rain-drains, swimming-pools and terraces	★★	★★★★
Cement renders	★★	★★★★
Jointing	★★	★★★★
Repair mortar for concrete constructions and concrete floors	★★	★★★★
Masonry	★★★	★★★★

★★★★ = Exceptional

## Application example

### **COMPAKTUNA® PRO cement works, jointing and plastering.**

Technical guidelines for top quality crack-free cementations using **COMPAKTUNA® PRO** plastic mortar.

#### **OUTSIDE CEMENT WORKS**

Solid bonded, free of cracks, watertight and frost-proof.

##### **1. On brickwork**

One must always work on a healthy, clean substrate both for the brickwork and the joints. The bonding bridge is of utmost importance, because loosening of the cement results in cracks. Therefore, proceed as follows:

- a) Prime layer having following composition: Mix 1 measure **COMPAKTUNA® PRO** + 4 measures pure water, spray generously and uniformly or apply using a brush on the substrate. Drying time according to the temperature 2 to 3 hours.
- b) Bonding bridge – composition: dry matter: 1 measure cement CEM II/B-M 32,5 + 1 measure coarse riversand 1-3 mm. Liquid: 1 measure **COMPAKTUNA® PRO** + 2 measures clean water. Mix dry matter and the **COMPAKTUNA® PRO**/water solution homogeneously until a thick paste is obtained. Spray this bonding bridge in a uniform way onto the wall or apply using a brush and let it adhere.
- c) Cementation: apply on to this bonding bridge the plaster having following composition: mix beforehand 50 kg cement CEM II/B-M 32,5 with 100 up to 140 L coarse riversand. Prepare it with 2,5L, 3L or 3,5L **COMPAKTUNA® PRO** per 50 kg cement according to the layer thickness 20, 15 or 10 mm and mix it with the correct amount of water until a plastic mortar is formed, which can be processed in the usual way using a trowel. On even brickwork, one approx. 10 mm thick layer is sufficient.
- d) On very rough brickwork, the first or pre-layer will only be applied to straighten the wall face. Next, after approx. 24 hours or more, the bonding bridge described under b) will be applied to this pre-layer, and on top of that the finishing layer indicated under c) cementation.
- e) Finishing layers are not only normal riversand-mortar layers but as well decorative layers made up of simili, quartz, silex, etc. (please refer to special instructions on that)  
Consumption: see **COMPAKTUNA® PRO** brochure (table 1 and table 2)
- f) Water-repellent and self-cleaning surfaces can be obtained by treating with **IMPERPLAST®**.
- g) For coloured painting of cement works we recommend **POLYCOLORIT®**.



## 2. On concrete

Work exclusively on clean, pure surfaces and remove any form removal oil or rust.

Mixing proportion of subsequent layers:

- a) Prime layer: **COMPAKTUNA® PRO** – water 1 to 4. Allow for the necessary drying time.
- b) Bonding bridge: dry matter: 1 measure cement CEM II/B-M 32,5 + 1 measure coarse river-sand 1-3 mm.  
Liquid: 1 measure **COMPAKTUNA® PRO** + 2 measures pure water. Mix both substances to a thick paste, to be applied using a brush.
- c) Cementation mortar as follows: 50 kg cement CEM II/B-M 32,5 + 100 L coarse riversand, grain size according to layer thickness. To be made up with a **COMPAKTUNA® PRO** –water solution: 3,5 L **COMPAKTUNA® PRO** per 50 kg cement + required quantity of water until a plastic mortar is formed. This is for a plastering of approx. 10 mm thick. In general, on concrete one single layer, so a finishing layer of 7-10 mm thickness is sufficient.
- d) Exposed concrete with thin layers of 1 up to 3 mm thickness (refer to our brochure **COMPAKTUNA® PRO** nr. 7).

This plastering technique offers unknown and surprising possibilities for the cladding of concrete facades, concrete parts, buildings and similar with simili, quartz, silex, etc. The quality of such **COMPAKTUNA® PRO** decorative layers is unequalled and the economic advantages are important.

For other applications: see our **COMPAKTUNA® PRO** - brochure (on demand)

Refer to clause p. 2.

Colours	Packaging	Application temperature
White	1 l (24 pcs/cardboard box), 2 l (20 pcs/cardboard box), 5 l, 10 l and 25 l	+ 5 till + 30 °C