

COMPAKTUNA®

COMPAKTUNA® PRO

Plastic dispersion

CE 11
COMPAKTUNA bv/srl INDUSTRIEPARK ZWIJNAARDE 6 9052 GENT - BELGIUM 0005
061/CPR/130701 EN 934-2+ A1 :2012 COMPAKTUNA® PRO T.9 : Water resisting admixture Chloride content : < 0,1% m/m Alkali content : < 0,5% m/m



CHARACTERISTICS



As a specific composite mixture, COMPAKTUNA® PRO, is with its extraordinary properties an asset for the building and general industries! One may say that the principal assets of COMPAKTUNA® 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.

PROPERTIES



1. It's extraordinary impermeability to water

COMPAKTUNA® 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® PRO is the ideal product. Also for cementing work, jointing, mortar and concrete which must satisfy high requirements for impermeability to water, COMPAKTUNA® PRO is the ideal solution: a strong water repellency can be obtained by merely applying some thin layers of render/mortar containing COMPAKTUNA® PRO.



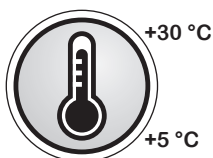
2. It's extremely good workability

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



3. It's remarkable flexibility

Adding COMPAKTUNA® 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® PRO) meeting the following physical properties:

- Viscosity: ± 90 mPa.s
- Solid: ± 52 %
- Density: $\pm 1,12$ g/ml
- pH: ± 8

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® 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.

Colours	Packaging	Application temperature
White	1 L (24 units/box), 5 L, 10 L, 25 L, 200L and 1000L	+5 °C till +30 °C

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

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 (e.g. CEM...) + 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 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)

f) Water-repellent and self-cleaning surfaces can be obtained by treating with IMPERPLAST® ECO.

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 + 1 measure coarse riversand 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 + 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)



COMPAKTUNA® PRO

MIXING RATIO & CONSUMPTION COMPAKTUNA® & COMPAKTUNA® PRO

Application	Volume mixing ratio cement/sand	Volume mixing COMPAKTUNA® (PRO)/water	Thickness	Surface / litre COMPAKTUNA® (PRO)
Base coating				
for porous surface	-	1/4	-	20 m ² /liter or 0,05 liter/m ² /mm
Bonding bridge				
for brickwork, concrete,...	1/1	1/2	±2 mm	7 m ² / liter or 0,07 liter/m ² /mm
for slate tiling, polished concrete, insulation plate,... (2)	1/1	1/1	±2 mm	5 m ² /liter or 0,10 liter/m ² /mm
Bondng mortar				
for faience, ceramics & mosaic	1/2 to 1/3	1/2	2 à 3 mm	5 m ² /liter or 0,08 liter/m ² /mm
for natural stone & insulation plates (1) (2)	1/2 to 1/5	1/1	2 à 3 mm	4 m ² / liter or 0,13 liter/m ² /mm
Placing mortar				
for faience, ceramics & natural stone (1) (2)	1/3	1/3	10 mm	2 m ² / liter or 0,05 liter/m ² /mm
Jointing mortar				
for facades - moist	1/3 to 1/4	1/4	12 x 15 mm	140 running m joint/liter or 7 ml/joint meter
for inside floors - pasty and powdering	1/3 to 1/4	1/6	5 x 10 mm	250 running m joint/liter or 4 ml/joint meter
for faience - pasty	1/3	1/3	3 x 8 mm	625 running m joint/liter or 1,6 ml/joint meter
for natural stone & terraces - moist	1/3	1/3	10 x 10 mm	77 running m joint/liter or 13 ml/joint meter
Screed layer/cement based plaster layer on cementitious surfaces				
very thin concrete reparations	1/2	1/1	tot 1 mm	8 m ² /liter or 0,13 liter/m ² /mm
thin concrete reparations	1/2	1/2	tot 2 mm	12 m ² /liter or 0,085 liter/m ² /mm
concrete reparation - thin wearing course (1)	1/2,5	1/3	tot 5 mm	16 m ² /liter or 0,064 liter/m ² /mm
adhesive wearing course (1)	1/3	1/4	tot 10 mm	2,3 m ² /liter or 0,43 liter/m ² /mm
screed (1)	1/3	1/5	tot 50 mm	2,5 m ² /liter or 0,40 liter/m ² /mm
cement screed	1/4	1/8	tot 80 mm	2,7 m ² /liter or 0,27 liter/m ² /mm
Waterproof cement rendering - COMPAKTUNA® PRO				
general outside cementitious renders (1)	1/2,5 to 1/3	1/4	10 mm	0,5 liter/m ² /cm thickness
for cellars, rainwater inlets, swimming pools (3)				
Masonry mortar				
for extra adhesive power	1/3 to 1/4	1/5	12 x 140 x 1000 mm	14 running meter/liter
Gypsum plaster mortar				
for extra adhesive power & more waterproof	-	1/6	5 mm	2 m ² / liter/5 mm or 1 liter/m ² /cm

The consumptions gives above are guidelines given in good faith, function from the type of cement, sand, the surface and the general working conditions.

(1) with a bonding bridge

(2) for applications with natural stones, white cement is recommended

(3) see manual for waterproof cellars

COMPAKTUNA®	COMPAKTUNA® PRO
★★★★	Problems with adherence
★★★★	Concrete sealing
★★★★	Reinforce flexible bond and making dust-free
★★★★	Gypsum, plaster
★★★★	Bonding bridge for: natural stone, faience and stoneware, ceramic, glass mosaics
★★★	Problems with water
★★★	Watertightness for cellars, rain-drains, swimming-pools and terraces
★★★	Cement renders
★★★	Jointing
★★★	Rapair mortar for concrete constructions/floors
★★★★	Masonry

★★★★★ = exeptional
 ★★★★★ = excellent
 ★★ = good