COMPAKTUNA®

Plastic dispersion

CE
0965

BVBA POLYTECHNISCH BEDRIJF SPRL
Industriepark - Zwijnaarde 6
B-9052 Gent

05

0965-CPD-AH011
EN 934-3
Air Entraining / Plasticizing
EN 934-3,T.2
Chloride content < 0,1 % m/m
Alkali content < 0,5 % m/m

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

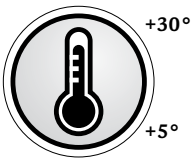
Characteristics

A stable, white, rubbery plastic dispersion, specially composed and tuned, used as a plastic bonding agent with cement, mortar, plaster, lime plaster and the like. **COMPAKTUNA®** refines and improves all mortar and, blended with the mixing water, introduces numerous properties and characteristics that lead to applications hitherto unknown or not thought possible.

8 properties in 1 product

COMPAKTUNA® mortar receives the following properties:

1. **Rock-solid adhesion:** 10 to 15 times stronger than ordinary mortar
2. **Tear resistant:** a plaster application (3 mm) on a mantelpiece remains completely without fissures or cracks after 4 years of use.
3. **Waterproof:** proven scientifically and in practice. Positive results.
4. **Elastic:** flexible - tractable mortar is possible
5. **Dust-free:** all parts are bonded with resin.
6. **Resistant to wear and tear:** is impervious to traffic of conveyances with metal wheels.
7. **Frost and heat resistant:** a test container made of **COMPAKTUNA®** mortar was used for boiling water. The container remained unaffected.
8. **Grease, oil, and gasoline resistant:** a **COMPAKTUNA®**-resin film immersed in benzene for 6 months remained unaffected.



Advantages

Thin quality layers – less weight – reduced download – no mass materials – faster positioning – quicker drying action – faster use – longer lasting – fewer risks – economical.

Instructions for specifications (example)

The works must be carried out with an aqueous caustic dispersion having a specific composite composition (**COMPAKTUNA®**) satisfying the following phsycial characteristics:
Viscosity: ± 3000 mPa.s, density: ± 1.06, pH: 4.5
Prisms manufactured with a mortar prepared with this dispersion show a penetration of water of only a couple of mm after being submerged in water for 3 months, and this unlike the blank, which already is saturated after 1 hour, and unlike other examined dispersions of which all are completely saturated with water after 48 hours. Due to this increased watertightness, adding this dispersion increases the mortar's resistance to chemical products. This dispersion confers a mortar high resistance values (resistance against pressure, bending and adhesion), and this when stored in both dry and humid conditions. The dispersion must give an exceptional flexibility to a mortar having the following composition: 100 g of cement, 200 g of sand and 100 g of **COMPAKTUNA®** in a 2 mm thick cementation. The work must be carried out according to the mixing ratios and directives for the use of the plastic dispersion (**COMPAKTUNA®**) indicated by the manufacturer. **Special instructions and scientific certificates are available on request.**

	COMPAKTUNA®	COMPAKTUNA® PRO
Problems with adherence	★★★	★★
Concrete joints	★★★	★★
Reinforce flexible bond and making dust-free	★★★	★★
Gypsum, plaster	★★★	★★
Bonding bridge for: · natural stone · faience and stonewere · ceramic · glass mosaics	★★★	★★

★★= Good, ★★★ = Excellent

Application example

COMPAKTUNA® BONDING MORTAR FOR ANCHORING OF JURA, SLATE, QUARTZITE, MARBLE, BLEU STONE, CERAMICS, ETC.

1. Nature and preparation of the substrate

It must be sound and solid as well as completely free of dust, dirt and loose particles. After cleaning it is always necessary to rinse the area to be covered with a little water. The same prescriptions also apply to the panels one wishes to bond.

2. Glueing of natural stone panels

On the substrate cleaned in that way and the back of the panel, the required adhesion can be obtained with certainty using the **COMPAKTUNA®** mortar. One always obtains an extraordinary adhesion when the panels are installed on walls, facades, columns or floors using a mortar composition consisting of:
First, mix 1 part by volume of cement CEM II B/M-32,5 with 2 to 3 parts by volume of riversand. Prepare this dry mixture with a solution of 1 part by volume of **COMPAKTUNA®** + 1 to 2 parts by volume of pure water. Make this mortar into a plastic paste.
First of all, one covers or spreads the glue side of the panel with a fine layer of **COMPAKTUNA®** mortar approx. 1 to 2 mm thick. Next the same layer of **COMPAKTUNA®** mortar is placed on the wall, the floor or the substrate on to which one wishes to fix the panel. The thickness op the mortar layer depends on the flatness of the substrate. On a flat concrete or cellular concrete surface or on any perfectly flat wall surface, one layer 2 to 3 mm thick will suffice. The panel is laid flat in this bath of **COMPAKTUNA®** mortar and pressed down according to the rules of an expert job.

3. On a extremely uneven substrate

A layer of mortar 2-3 mm thick will be insufficient. In some cases, even a layer thickness of 10 mm is required. In this case the job can be economically done by means of the socalled bonding bridge. The bonding bridge is a coating, which is applied on the glue side of the panels one or more days before installation. This coating or bonding bridge has the following composition: in a **COMPAKTUNA®**/water solution made of 1 part of **COMPAKTUNA®** on 1 to 2 parts of water, a dry mixture of 1 part of cement and 1 part of coarse riversand is stirred in a proportion until a thick mass is obtained. This mass is the bonding bridge, which is spread on the side to be glued of the panel by means of a coarse brush at a thickness of 1 to 2 mm. Let this coating dry during at least 12 hours so that it sticks solidly to the panel. In that way a gritty adhesion plane or bonding bridge is obtain, which will be strongly anchored with the layer of mortar to be used for the fixing of the panels. It will then be sufficient to prepare a mortar using a **COMPAKTUNA®**/water solution 1-5 so that a more economic but yet guaranteed execution is possible, even when it is necessary to use a thick layer of mortar.






4. Filling of the joints

Must be done with great care and using a filler mortar of special quality. This filler mortar must be strongly adhesive, without cracks, resistant to frost and heat as well as impermeable. All these necessary requirement, which are indispensable in order to prevent serious damage to facade or floor coverings, both inside and outside, are present in a **COMPAKTUNA®** filler mortar. For normal grey or white filling of joints, the following filler mortar is recommended: Mix 1 part by volume of cement CEM II B/M-32,5 or white cement, according to the desired colour, with 2 to 3 parts by volume fine riversand or white sand. Make up this mixture with COMPAKTUNA®/water solution 1-1.

5. Useful advice

As soon as the applied filler mortar has become stiff to a certain extent, the edges of the panels along the joints must be dry-cleaned from any sticking mortar. It concerns here a very sticky **COMPAKTUNA®** mortar, which after having completely dried is very difficult to remove from the natural stone.

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

Refer to clause p. 2.

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