COMPAKTUNA®

RAPOLITH®

Fast-bonding cement

CE
13

COMPAKTUNA bv/srl
INDUSTRIEPARK ZWIJNAARDE 6
9052 GENT – BELGIUM

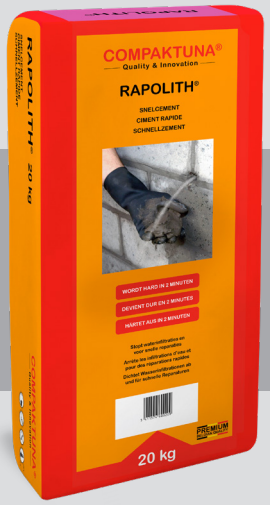
006/CPR/130701

EN 1504-3:2006

RAPOLITH®

Fast-bonding mortar based on hydraulic cement (CC) for non-structural repair of concrete structures

Compressive strength:	class R1
Chloride ion content:	≤ 0,05%
Adhesive Bond:	≥ 0,8 MPa



QUALITIES

A powdered, waterproof sealing product for fast cement and concrete works.

APPLICATIONS

1. For all fast-bonding and fast-hardening waterproof cement works such as:
   - Remedying water leaks and seepage in cellars, collection containers, tunnels, shafts, water pipes etc.
   - Sealing of seepage through cellar walls with fast-bonding covering.
2. Especially well suited for fast-action settling work of hooks, anchors, bolts, and numerous other attachments into concrete, masonry, and all kinds of natural stone.
3. For fast-action extra-strength anchoring of staircase railings, parapets, balusters, metal doors and windows
4. For fast-action anchoring of machines and installations in industrial settings and readying them for commissioning within a few hours.

SPECIAL APPLICATIONS

RAPOLITH® can be mixed with: fine white sand, rough river sand, kift, pumice,... RAPOLITH®, when used undiluted or mixed with sand, will tolerate temperatures up to +200 °C. RAPOLITH®, when used undiluted or mixed with sand, is always readied with clean water. While this mortar is waterproof and strongly adhesive, it is possible to greatly increase the adhesive quality, especially on natural stone and smooth non-porous materials, by using a mixing liquid consisting of: 1 part by volume of clean water mixed with 1 or 2 parts by volume of COMPAKTUNA® PRO. RAPOLITH®, depending on temperatures at time of application, will give a variable bond that can be regulated starting after 3 minutes and going up to 5-10 minutes.

+30 °

+5 °

Technical characteristics		Measurements MPa (N/mm²)
Compressive strenght	after 2 hours after 24 hours after 7 days after 28 days	ca. 10 ca. 15 ca. 33 ca. 38
Flexural strenght	after 2 hours after 24 hours after 7 days after 28 days	ca. 2,5 ca. 2,7 ca. 4,5 ca. 6
Tensile adhesion strenght after 28 days	on concrete on concrete with COMPAKTUNA® 1/2	ca. 0,5 ca. 2

Mixing ratio	Consumption	Packaging
±4,4 L water per bag of 20 kg (±22% of water)	Never prepare more mortar than the amount one can use before the start of the bonding.	5 kg & 20 kg PE
Colours	**Processing time**	**Application temperature**
Grey	±3 to 5 min.	+5 °C tot +30 °C

RAPOLITH®

RAPOLITH® mortar, thus “RAPOLITH® mixed with sand”, will render a bond fluctuating between 5 minutes and 30 minutes, depending on the quantity of aggregates and the ambient temperature at the time of application. RAPOLITH®, applied at low temperatures, for instance at +5 °C, will considerably lose its fast-action binding property. In cold temperatures, it is recommended to apply it using warm water. RAPOLITH® gives the fastest bond when applied at temperatures of +12-15 °C and higher. RAPOLITH® is very sensitive to moisture. The product should therefore be stored in its original packaging, airtight and dry

DIRECTIONS FOR USE

1. General

- It is recommended to mix only as much RAPOLITH® as can be used until the beginning of the bonding process.
- RAPOLITH® should not be mixed into a plasticised form when treating water leaks. The best results are achieved with dry mortar. The use of too much water prolongs the sealing time and is not recommended. A good ratio is with 22% water.
- RAPOLITH® should be mixed fast and vigorously. At first sign of stiffening, the mixed paste should be applied quickly. As soon as applied it must be left un-touched, otherwise the bond may be loosened.
- In case of cold temperatures, mix with lukewarm water.

2. The substrate

- Whatever the type of substrate, it needs to be clean and solid, free of all loose matter, dust and dirt, and by preference it should be cleaned off with clean water so that the surface area is untarnished.

3. Special applications

- In the case of water leakage and seepage, a backwards pointing dove-tail shaped hole is hacked out to a depth of 3 to 4 cm. The hole must be free of dust, dirt, and loose matter before it is filled with RAPOLITH® paste.
- For the sealing of seepage through cellar walls, a paste is made that consists of: 1 part water and 1,5 to 2 parts RAPOLITH®. Coat the walls thickly with the claylike paste until all holes, cracks, and tears in the joints and stones are completely filled in. When a particularly strong and tough application paste is required, add 1 or 2 parts COMPAKTUNA® PRO plastic dispersion to the water. The quantity of RAPOLITH® to be added needs always to remain in the correct proportion so that a truly tight and strong application paste is obtained.
- For fast-action in the affixing and anchoring of hooks, bolts, staircase railings, parapets, metal doors, windows, machinery, equipment and the like. The fastest bonding is achieved by filling the anchoring holes with undiluted RAPOLITH® mixed with clean warm water. The strongest adhesion is achieved by the addition of 1 to 2 parts COMPAKTUNA®.

PACKAGING

RAPOLITH® is available in grey in polyethylene bags of 20 kg and 5 kg. The shelf life is 12 months in the original, closed packaging and kept dry.

20230308

As the applications of our products are diverse, no single application guideline can be laid down. All product data refl ect the state of knowledge of our products at the time of publication. Therefore all suggestions and recommendations concerning the use of our products are merely illustrative. Apply the product on a small and insignifi cant spot before starting to use our products to be sure the desired result is obtained. Always ask for the technical sheet of our products. Visit the website www.compaktuna.be. Consult our “technical department” which can be reached for free on the green number 0800/92279. The Dutch text shall be exclusively binding. Version 10/02/2014. **COMPAKTUNA BV is EN ISO 9001 certified.**

COMPAKTUNA®
Quality & Innovation

A MEMBER OF HOLCIM GROUP

COMPAKTUNA bv/srl
Industriepark III
Industriepark Zwijnaarde 6
9052 Gent - Belgium
T +32 9 221 11 16
VAT BE0400.166.768 - R.P.R. Gent
info@compaktuna.be
www.compaktuna.be