

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



APPLICATIONS



SPECIAL APPLICATIONS



+30 °

+5 °



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

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.

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.

Technical characteristics		Measurements MPa (N/mm²)
Compressive strength	after 2 hours	ca. 10
	after 24 hours	ca. 15
	after 7 days	ca. 33
	after 28 days	ca. 38
Flexural strength	after 2 hours	ca. 2,5
	after 24 hours	ca. 2,7
	after 7 days	ca. 4,5
	after 28 days	ca. 6
Tensile adhesion strength after 28 days	on concrete	ca. 0,8
	on concrete with COMPAKTUNA® 1/2	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.	2 kg buckets, 5 kg & 20 kg PE
Colours	Processing time	Application temperature
Grey	±3 to 5 min.	+5 °C tot +30 °C

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 and in 2 kg buckets. The shelf life is 12 months in the original, closed packaging and kept dry.

