RAPOLITH®

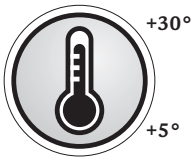
Fast-bonding cement

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:
   a) remedying water leaks and seepage in cellars, collection containers, tunnels, shafts, water pipes etc.
   b) sealing of seepage through cellar walls with fast-bonding covering;
   c) laying of concrete and masonry foundations and concrete products that are required to be used without delay;
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, and the like.
RAPOLITH®, when used undiluted or mixed with sand, is very acid-resistant and will tolerate heavy frost conditions and 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®.
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.
RAPOLITH® mortar, thus “RAPOLITH® mixed with sand”, will render a bond fluctuating between 30 minutes and 3 hours, 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.

Mixing ratio	Consumption	Packaging
± 22 % of water	Never prepare more mortar than the amount one can use before the start of the bonding	1,5 kg (16 pcs/cardboard box), 5 kg, 10 kg and 20 kg
Colours	**Processing time**	**Application temperature**
brown-grey	± 3 to 5 min at +20 °C	+ 5 till + 30 °C

RAPOLITH® is very sensitive to moisture. It is therefore necessary to keep the product stored in its original packaging, air tight and in a dry environment.

Directions for use

1. General

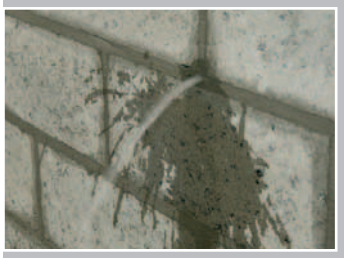
a) It is recommended to mix only as much RAPOLITH® as can be used until the beginning of the bonding process.
b) RAPOLITH® should not be mixed into a plasticised form when treating water leaks.
The best results are achieved with dry mortar. The use of too much water prolongs the sealing time and is not recommended. A good ratio is with 22 % water.
c) 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 untouched, otherwise the bond may be loosened.
d) In case of cold temperatures, mix with lukewarm water.

2. The base

Whatever the type of base, 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

a. 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. (see under no 1b);
b. 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® 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;
c. To prepare fast-action concrete foundations and products. By adding from 10, 15, 20, 25 kg or more of RAPOLITH® per 50 kg of cement CEMII/B-32,5, fast-bonding concrete products and masonry can be obtained. However, using pure RAPOLITH® for a quick use of concrete will result in the fastest acting bonding. Since the bonding time for RAPOLITH® concrete and mortar can be variably regulated and the speed depends on the ambient temperature at the time and on the quantity of aggregates, it is in this case always advisable to carry out a test to determine what is the desired bonding time.
d. 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® to the mixing water. The strongest anchoring is achieved by the addition of river sand in a ratio of 1 part RAPOLITH® and 1 to 2 parts clean river sand. This dry composition can be mixed with clean water or with COMPAKTUNA®(PRO)/water in a 1-2 ratio.






Store RAPOLITH® in a dry place. For cellar sealing, balconies, terraces, facades, etc., use tear-resistant COMPAKTUNA® plastic mortar.

Refer to clause p. 2.