

## ANCHOR BOLT MORTAR

### PRODUCT DESCRIPTION

CEMPAC® 561 is a special formulated dry mortar based on standard Portland Cement, fine fillers, supplementary binders and chemical admixtures. The mortar has a very fluid but also a very thixotropic consistence, when the right amount of water is added. The material has a very low shrinkage and in the early phase also a small expansion to give maximum bonding to surrounding concrete.

### APPLICATIONS

- CEMPAC® 561 is designed for anchoring anchor bolts, reinforcing steel (rebar),... in concrete constructions or in solid rocks.



### TECHNICAL DATA

**Water content 29%. 50% RH at a temperature of 20°C during hardening process**

<b>Flexural strength</b>	≥ 5 N/mm <sup>2</sup> after 3 days, ≥ 6 N/mm <sup>2</sup> after 28 days
<b>Compressive strength</b>	≥ 25 N/mm <sup>2</sup> after 3 days, ≥ 40 N/mm <sup>2</sup> after 28 days
<b>Volatile organic compound value</b>	free of ammonia and formaldehyde
<b>Fluidity</b> (Flow ring test SS 923519 diam. 50x23 mm)	not measurable
<b>Dry powder density</b>	approximately 1,7 g/cm <sup>3</sup>
<b>Wet volume weight</b>	≥ 1,9 – 2,1 g/cm <sup>3</sup>
<b>Water stability</b>	water-stable

### TECHNICAL INFORMATION

<b>Water addition</b>	29% (7.25 litres/25 kg bag)
<b>Minimum substrate temperature</b>	+6 °C
<b>Open time</b>	15 – 35 minutes, depending on the ambient temperature
<b>Hardening time</b>	1 – 2 hours for light loading, depending on the temperature > 7 days for heavy loading, depending on the temperature
<b>Storage</b>	Six months in dry conditions, max. 20°C and 50% RH

**SUBSTRATE PREPARATION**

CEMPAC® 561 should be injected in a well-prepared and clean drilled hole. The drilled hole to be treated must be hard, sound and free from surface contamination. All dust should be vacuumed or blown out of the whole. Avoid the use of oil contaminated air pressure to blow away the dust, this will make the adhesion of the mortar in the anchor hole almost impossible.

**MIXING**

CEMPAC® 561 can be mixed in a bucket with a hand mixer. Only use clean potable water of a max. temperature of 20 °C at a rate of 7,25 litre per 25 kg bag (= 29% of water). If the material starts to flow out of the drilled hole, there is too much water used in the mix. The mixed material should be used within 15 - 25 minutes depending on the temperature.

**PERFORMANCE**

CEMPAC® 561 is applied with a small type of conveyor pump or by using a hose adapted for the hole. The material can also be applied by using a joint filler pump. A proper ratio of water to the dry material results in an easy to use thixotropic, pumpable mortar with high internal friction so anchor bolts can be hanging in the wet material without sliding out of the drilled hole. If the temperature is very high the open time is just about 15 - 20 minutes. The higher the ambient temperature, the faster the curing. It is very important not to mix too big quantities to have the time to apply the mortar before the binding has started. Make sure the pump is continually filled with fresh mixed material. Do not add extra water in to the mortar once the binding has started. CEMPAC® 561 can normally take full load after one week of curing. Do not process at temperatures below +5°C.

**CLEANING**

All tools and equipment should be cleaned immediately with water.

**HEALTH AND SAFETY**



Contains cement. Wet cement is corrosive. Protect your eyes and avoid prolonged contact with the skin. Keep out of reach of children. For further information, consult the CEMPAC® 561 safety sheet.

**Transport:** not a classified product.

**IN GENERAL**

The general information provided in this technical description, application advice, and other recommendations are based on research and experience. Users themselves must determine whether the products are suited for their specific application. The specified properties refer to average values, obtained at 20°C and 50% RH and prepared according to the current state of the art. Written and oral recommendations in accordance with our general delivery terms are entirely free of obligation.

These technical descriptions supersede all previous ones.

Please take account of different local conditions, such as ventilation, floor temperature, air humidity,...

High air humidity and low temperatures delay the bonding and hardening; high temperatures accelerate them.

Consult our website [www.cemart.eu](http://www.cemart.eu) to download the most recent version of the technical information sheet.