

Expansion Concrete Std



Expansion Concrete Std is used in concrete casting where sides of the casting site are unavailable and there is a requirement for total filling.

Intended Use

Expansion Concrete Std is used in concrete casting where sides of the casting site are unavailable and there is a requirement for total filling. Used during the undercasting of steel and concrete pillars, concrete elements and machines, as well as for the setting of railings and pillars. The product provides high strength and good adherence to the adjacent surfaces, as well as good corrosion protection for the casting components of untreated steel. The product provides a good sealing and thus a good protection against external influences: for example, from detergents, light acid corrosion, salt solutions and the like. The product is pumpable.

Pre-treatment

For the best results, the temperature in the work area should be between 10–25 °C. Store the dry mortar and other materials so that they will remain at over 10 °C before use. At temperatures lower than 5 °C, the strength development will cease. If the product is used in temperatures below 5 °C, then winter measures should be implemented. The substrate should be clean and free from dust, a cement skin, grease or other impurities that can prevent adhesion. Smooth and glossy surfaces should be roughened and elutriated, when necessary. Pre-water before the casting begins. There must not be free water in the casting form. Aluminium may not be casted on. Galvanised castings shall be protected by painting in the part to be casted.

Mixing

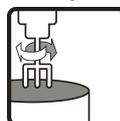
The dry powder is mixed with 2.4 litres of water (12 %) per 20 kg bag. The mixing is done in a paddle mixer or a free fall mixer for approx. 3–7 minutes, or with a drill and a whisk. The mortar is mixed into a homogeneous mass. If the product is used with more water than is recommended, it will resultate in a lower strength and a risk of separation and shrinkage. Use the pre mixed mass within approx. 30 minutes.

Water requirement



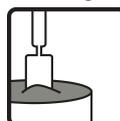
2.4 liters/20 kg

Mixing time



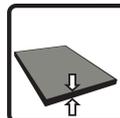
3–7 min

Working time



approx. 30 min

Leveling layer



30–150 mm

Curing



72 hrs

Weather protection



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Execution

Fill the form with the pre-mixed mortar. Work in a direction so that no air-pockets are formed. Vibrate sparingly. Mortar that has started to cure may not be mixed with more water and must be discarded.

Post-treatment and curing

Protect the newly-cast surfaces immediately from direct sunshine, rain and high wind. Postwatering should always be done for at least three days in dry and warm weather, as well as in the case of strong winds. Use a water hose with a fine spray nozzle. The strength increases with the post-watering of the cured material. Cover the post-watered surface with plastic. The concrete surface must not be exposed to frost before the strength has reached 5 MPa.

Storage time and packaging

Store in a dry environment. The storage life is 12 months from the date of production in the unopened original packaging. The date of production is printed on the packaging. The product is delivered in bags of 20 kg and big bags.

Residual Products and Safety Instructions

Paper packaging: Empty packaging is sorted as residual waste. Plastic packaging: Recycle empty and cleaned bags. Residual products should be mixed with water, allowed to harden and deposited as building waste. Must not be emptied into the drainage system. Any remaining, dry powder that has been stored properly can be used again. Hardened material should be disposed of as construction waste. Do not wash the product into the sewage system. The cement in the product has a reduced level of chromate. Follow regulations in each respective country.

HMS Info

For current version of product information, contact Combimix at info@combimix.se. Previously undated and dated issues are no longer valid. For more information contact our sales organization.

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Disclaimer

pdf-disclaimer

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Product specification

Binder	Portland cement
Leveling layer	30–150 mm
Grain size	≤ 3 mm
Air content	approx. 5 %
Water requirement	2.4 liters/20 kg
Material consumption	approx. 2,0 kg/m ² /mm
Working temperature	10–25 °C
Pre-watering	yes
Mixing time	3–7 min
Working time	approx. 30 min
Initial setting time	in approx. 4 hrs
Curing	72 hrs
Color	grey
Compressive strength class	C45/55
Water-cement ratio	0,40
Frost resistance	God
Expansion	< 4 %