

Conrep SR

High performance, pumpable, fibre reinforced, Shrinkage compensated thixotropic mortar used for Civil Engineering. Can be used in vertical surfaces without framework. Construction as bridges, beams, water reservoirs, dam and other civil engineering. Also suitable for jointing of concrete elements and natural stone where a joint with good seal and high adhesion is required. Meets the requirements according to EN 1504-3, repair class R4.

Work description

Preparation:

The concrete substrate must be clean and free of dust, damaged concrete, grease or other contaminants that may impair adhesion. Substrate with a roughened and raw surface with closely spaced irregularities provide better adhesion. Clean the substrate carefully and if possible pre-water 24 hours before casting. Remove free water just before casting.

Mixing:

Conrep SR is mixed for at least 5 minutes to a lump-free mass. The mixing takes place with a concrete mixer. Vary the water content according to the desired consistency. However, no more water than is specified in the technical data. The concrete mass must have a temperature of approx. 20 °C. Compensate cold dry use with warm water and vice versa.

Application advice:

The mortar is best applied with a steel trowel or trowel in layers up to 50 mm. The surface can then be felted or smoothed to achieve the desired surface structure. When grouting, ensure that joints are always completely filled to avoid voids and apply either by hand with the Bemix hand mortar pump or with the help of our electric concrete pumps.

After treatment:

Semi-hardened material can be adjusted with a trowel. Free and unprotected surfaces are protected immediately after casting so that shrinkage and dehydration cracks do not occur. After casting, the surface can be moisture-cured with a thin, light mist of water, but that cannot mechanically damage the mortar. At air temperatures above 5°C, curing may take place with remaining form, covering or supply of water and may last the entire first week. As soon as the surface hardens, it can be watered and covered.

Technical data

Material consumption	20kg/m ² = 10 mm thickness
Min thickness	5mm
Consistency	Thixotropic
Processing time	Approx 1 h
Recommended layer thickness	5-50 mm non reinforced
Water consumption	Max 3 liter/ 20kg
Rec.Lowest application temperature	≥ +5°C (Weather and wind must always be taken into account)
Rec.Highest application temperature	< +30°C (Weather and wind must always be taken into account)
Chloride content	< 0,02 % according to SS-EN 1015-17
Carbonation resistance	< 2 mm
Cement type	Cement, Cem III/A-V 42,5 N –NSR MH/LA according to EN 197-1

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Aggregate	D max 1 mm. Natural Sand
Fiber	Yes
Adhesion strenght	3,9 MPa
Compressive strength 28 days	45 MPa according to SS-EN 12190
Exposure class	XC4, XD3, XS3, XF4, XA2 according to SS13703:2015
Frost resistance	Yes
Water tightness	Yes
Water cement ratio	0,39
Shrinkage (‰)	≤1,2‰ according to SS-EN 12390
Capillary suction	< 0,3 kg/ (m ² * h ^{0,5})
Repair class	R4 according to EN 1504-3
Frost resistance, 56 cycles, flaking	Very Good SS 13 72 44:2019 1 A
Package	20 KG

Packaging

The product is in 20 kg sacks. The package recycles as soft plastic or according to local requirements in the municipality.

Storage

Use within 24 months from the manufacture date on the package. Assumes dry storage in unopened packaging.