

# R50

**High-performance, fibre reinforced, shrinkage compensating, thixotropic repair concrete for repairs in concrete where there is a requirement for high performance and durability. Can be used on vertical surfaces without the need for formwork. For repairs to balconies, bridges, quays and other concrete structures.**

## 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:

R50 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.

### 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

Cement type	CEM II/A-LL 42,5 R	
Consumption	20 kg gives approx. 10 l of ready mixed mortar	
D max	1 mm	
Recommended layer thickness	5-50 non reinforced	
Max water addition	3,4 l per 20 kg	
V <sub>ct</sub> at max water addition	0,45	
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)	
Fresh mortar	Value	Method
Consistency	Thixotropic	
Processing time	Approx 1 h	

**Finja cannot be held responsible for information other than that given in Technical data being correct. Conditions that are outside Finja's responsibility can be e.g. handling, treatment, working methods, possible reactions with other materials and local conditions at the storage or workplace. For current information always refer to [www.finja.se](http://www.finja.se)**

Hardened mortar	Value	Method
Shrinkage (‰)	<1,1 ‰	SS-EN12390
Compressive strength at 20 °C		
After 28 days	> 45 MPa	SS-EN 196-1:2005
Frost resistance, 56 cycles, flaking	Verygood (<0.10 kg/m <sup>2</sup> )	SS137244:20191B
Fire class	A1	
Exposure classes	XC4/XF3	SS 137003:2015

## Packaging

The product is in 20 kg sacks. The package consists partly of recycled plastic and will be recycled as soft plastic or according to local instructions in the municipality.

## Storage

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