

# SP40

**Bemix SP40 is a drymix that is specially designed for dry spraying. The concrete is based on a low-alkaline and sulfate-resistant cement and well-graded ballast. Very good frost resistance. For repairs where minimum shrinkage and cracking is a requirement. Can be used for tunnel lining and other reinforcements of rocks as well as repairing columns, beams, quays and other concrete structure. Meets class R4 according to EN 1504-3.**

## Work description

Pre-treatment:

Damaged concrete or rock is removed mechanically. Oil and other contaminants are removed with a cleaning agent. Final cleaning is done with the correct quantity of water. Very rough surfaces give the best adhesion. The surface should dry enough to be slightly absorbent when spraying.

Mixing and application:

Intended for the dry spraying method. Mixed and sprayed with appropriate equipment. Professional experience and knowledge of spraying concrete is needed. Always use clean water. Winter measures should be taken below 5°C.

## Technical data

Cement type	Cement, Cem II/A-V 42,5 N –NSR MH/LA
Aggregate	0-8 mm natural sand
Max water addition	2,5 litre/ 25 kg bag alt. 100 litre/ 1000 kg bags
Wct with max water	0,35
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)
Recommended layer thickness	20-70 mm unreinforced
Frost resistant	Very good - SS EN 137244 1A(chloride environment)
Compressive strength 28 days	65 MPa SS EN 12390-3:2009 (shotcrete)
Compressive strength 28 days	65 MPa SS EN 23290 (Cast)
Density ( 28 days )	2310 kg/m <sup>3</sup> SS-EN 12390-7:2019
Chloride content	≤ 0,05 % SS-EN1015-17
Resistance to carbonation	Approved
Restrained shrinkage/expansion	≥ 2 MPa
Compressive modulus of elasticity	≥ 20 GPa
Resistance to temperature change Part 1. Freezing / thawing	4 MPa ( no cracks ) EN 13687-1
Adhesion	3,2 MPa EN 1542
Fireclass	A1
Exposure classes	XC4 XD3 XS3 XF4

## Packaging

**Bemix cannot be held responsible for information other than that given in Technical data being correct. Conditions that are outside Bemix 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.bemix.se](http://www.bemix.se)**

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The product is supplied as standard in 25 kg sacks but can also be obtained in 1000 kg big sacks.

## Storage

Use within 12 months of the date of manufacture given on the pack. Store in a dry place.

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