

# 35 MPa Concrete

High performance pre-mixed concrete  
with high initial strength

35 MPa CONCRETE is a high-early-strength, pre-mixed concrete made from a superior blend of Portland cement, stone, and sand. Designed for formwork-based repairs, it enhances the long-term durability of structures and is ideal for work requiring concrete with a thickness of 5 cm (2") or more. Available exclusively in 1,000 kg or larger super bags.

## ■ USE

Interior and exterior concrete repairs, permanent and deep.

### TYPICAL USES:

- For the repair of slabs, steps and patios
- For the Rehabilitation of concrete floors and foundations
- For Repair above, below and at ground level
- For the repair of horizontal, vertical and overhanging structures

## ■ PRODUCT FEATURES

- Fast and very high initial resistance
- Matches standard concrete color
- Great time of workability and standard handling
- Dimensional stability
- Applications with different thicknesses
- Easily pumpable and placeable

## ■ SURFACE PREPARATION

Good repair is achieved when the repair material is well bonded to the substrate. The surface to be repaired must be clean and rough. The surface to be repaired must be free of any ripening membrane, oil, grease, delaminated concrete, dirt and dust, or any other substance that may impair adhesion. Smooth surfaces must be mechanically scarified.

## ■ PRIMING

No primer required.

## ■ ESTIMATING/YIELD

CONCRETE 35 MPa, is offered in super bag of 1,000kg or more and provides a variable yield depending on the quantities of kg and base on the following amount of water ratio:

### YIELD PER SUPER BAG:

1,000 kg	0.455 m <sup>3</sup> /BB	82,6 Litres
1,135 kg	0.516 m <sup>3</sup> /BB	93,8 Litres
1,350 kg	0.613 m <sup>3</sup> /BB	111,6 Litres
1,500 kg	0.682 m <sup>3</sup> /BB	124,0 Litres

## ■ PRECAUTIONS AND RESTRICTIONS

- Do not apply to fresh concrete or frozen surfaces
- Protect from freezing for a minimum of 48 hours
- Do not apply at temperatures below 5°C or above 35°C
- Do not add adjuvant to this product

## PHYSICAL PROPERTIES OF THE MATERIAL @ 22°C (72°F)

COMPRESSIVE STRENGTH CSA A23.2-9C CYLINDERS OF 100 x 200mm (4X6")			AIR CONTENT	
7 days	43.1 MPa	(6,200 psi)	Norm CSA A23.2-4C	5.8 %
28 days	52.9 MPa	(7,600 psi)		
56 days	53.6 MPa	(7,550 psi)		
PERMEABILITY TO CHLORINATED IONS ASTM C1202			CURE	
56 days	200 coulombs		Working time	± 2 h 30 minutes
			Initial set time ASTM C-191	± 4 h 15 minutes
			Final set time ASTM C-191	± 8 h 30 minutes
			SPREAD	
			Norme CSA A23.2 - 5C	110 mm ± 20 mm

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## ■ PRODUCT MIXING

Place the mixers near the workplace. Pour the recommended amount of water into the mixer. Add the 35 MPa CONCRETE and mix for at least 15 minutes until a homogeneous consistency is obtained. Pour or pump the mixture directly into the formwork on the surface to be repaired. Discard any material that has hardened. For large castings or applications at temperatures below 5°C or above 35°C, contact your BMQ SOLUTIONS representative.

## ■ PRODUCT APPLICATION

### PLACING:

35 MPa CONCRETE does not require any bonding agent. Moisten the surface to be repaired. As soon as mixing is finished, place the product on the surface to be repaired. Place from side to side and not from the middle to the edges.

### FINISHING:

Once the concrete has reached its initial set, the surface can be finished with a wooden trowel, magnesium trowel or scraper.

## ■ CURING

As soon as the repaired surface has hardened sufficiently, saturate the surface with water, apply damp jute for 3 days, or apply a curing membrane as soon as the 35 MPa CONCRETE has set. Wait a minimum of 28 days to cover with paint.

## ■ PACKAGING

### CONCRETE 35 MPa:

Super bag of 1,000 kg or more  
1 Super bag per pallet

## ■ RECOMMENDED TOOLS

The following tools will ensure an efficient and economical placing:

- Mortar mixer
- Bunker B100 type mortar pump
- Wood and magnesium trowel

## ■ CLEANING

Use water to clean tools immediately after use.

## ■ STORAGE

See MSDS (material safety data sheet). This product contains Portland cement and silica sand. It may cause irritation to eyes and skin. Avoid contact with eyes and prolonged contact with skin. Do not breathe the powder. In case of contact, rinse well with plenty of water.