



The Chemical Company

# SHOTPATCH<sup>®</sup> 20

Cementitious spray applied repair mortar

## DESCRIPTION

**SHOTPATCH 20** is a ready-to-use, multi-component, cement based shotcrete mix. It is specially designed for civil and mining applications using either the wet or dry shotcreting systems.

## RECOMMENDED FOR

- Repairs to the underside of bridge decks, bridge piers and beams, tunnels, sewer pipes, drains, sea walls, and culverts.
- Protection of steel work e.g. fireproofing.
- Tunnel linings and embankment stabilisation.

## FEATURES AND BENEFITS

- **Built-in factory quality control for uniform results**
- **Easy to use - requires only the addition of potable water for mixing or spraying**
- **Economical - reduces handling and clean-up costs**
- **Is easily pumped using the wet mix shotcrete system**
- **Good working time - over one hour at 21°C**
- **Can be used with EMACO 168 acrylic-polymer bonding additive to provide increased bond strength and greatly reduced permeability**
- **Controlled shrinkage**

## TYPICAL PERFORMANCE DATA\*

Age	Compressive Strength MPa	Flexural Strength MPa
1 day	30.0	3.0
3 days	45.0	4.0
7 days	60.0	5.0
28 days	70.0	6.0

\* All performance data is determined by testing of actual, in-place shotcreted specimens such as cores and beams taken from test panels.

Reasonable variations from the data shown can be expected, depending on the care taken in evaluating test specimens, and jobsite conditions such as the quality of substrate preparation, level of expertise of the nozzle man, curing procedures and weather.

## APPLICATION DIRECTIONS

Prepare the surface to be shotcreted by removing all unsound concrete, dirt, dust and debris. When attempting structural repairs to existing concrete members, saturate the properly prepared concrete surface for a minimum of 7 hours prior to shotcreting.

Mix **SHOTPATCH 20** with approximately 1.8-2.5 litres of water per 20kg bag.

**SHOTPATCH 20** can be shotcreted in depths ranging from 10 - 150mm in one pass.

## CURING

Proper curing is extremely important. Wet curing is recommended for the first 3-5 days, after that time continue curing by the use of a quality curing compound such as **MASTERKURE 404** or **MASTERKURE 250**. If **EMACO 168** is mixed with **SHOTPATCH 20** then only **MASTERKURE 404** can be used. Do not use solvent-based curing compounds such as **MASTERKURE 250**.

## YIELD

One 20kg bag of **SHOTPATCH 20** mixed with water yields approximately 10.2 litres (0.0102m<sup>3</sup>).

Allowance must be made for rebound and cut off for finishing which will reduce the coverage accordingly.

Without allowing for cut-off, an allowance of 5-10% can be made for rebound. This is for an experienced nozzleman and ideal conditions. For overhead spraying the rebound allowance may be increased to 10-50% depending on the admixtures used. Refer to your BASF Construction Chemicals technical representative for further advice.

## PACKAGING

**SHOTPATCH 20** is supplied in 20kg bags or 1 tonne bulk bags.

## PRECAUTIONS

**SHOTPATCH 20** is not toxic, but as with other products containing Portland cement it has an alkaline nature and thus can be irritating to skin and eyes. Wear simple dust masks, safety glasses and gloves when handling. When applying **SHOTPATCH 20**, whether by wet or dry spraying, always wear a dust mask, safety glasses, gloves and overalls as protection against potential rebound of aggregates against the body. Keep out of reach of children. Wash off splashes of mortar with clean water. If irritation persists, seek medical advice.



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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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