

CONCRESlVE[®] 2020

A high build epoxy resin mortar, specifically designed for vertical and overhead applications

Description

CONCRESlVE[®] 2020 is a three-component solvent free epoxy resin mortar. The specially selected fillers and resins form an easily finished impervious mortar with high build characteristics combined with optimum chemical and mechanical resistance.

Primary uses

Overhead work and vertical surfaces where normal epoxy resin compounds are unsuitable. Wherever effective repair of spalled concrete is required to provide all round protection to reinforcing steel, vertical renders for linings, etc. General repairs, renovation and rendering to:

- Soffits.
- Undersides of floors, beams, etc.
- Honeycombed or spalled concrete.

Wherever a high build impervious mortar with excellent chemical resistance and maximum mechanical properties is required, such as sewerage works, bridge repairs, manhole linings, pipes, etc. CONCRESlVE[®] 2020 is non-toxic and can be used in potable water installations.

Advantages

- Light weight.
- Suitable for high build application.
- Suitable for vertical and overhead surfaces,
- Good adhesion and cure under damp conditions.
- Excellent chemical resistance.

- Non toxic.
- Extended pot life and working time.
- Low exotherm.

Packaging

CONCRESlVE[®] 2020 is supplied in 5 kg units.

*Typical properties

Service temperature limits:	-20°C to 65°C.
Application temp. limits:	8°C to 45°C
Density (BS 6319 Part 1):	1650kg/m ³
Pot life at 25°C	120 mins
at 40°C	90 mins
Tack free at 25°C	5½ hours
at 40°C	2¼ hours
Full cure 25°C	3 to 5 days
Compressive strength at 25°C (ASTM C-579) (7 Day Cure):	35N/mm ²
Chemical resistance:	Excellent

Application procedure

The surface to be treated should be dry and free from dirt, dust concrete curing compounds, residual mould oil or other contaminate that could impair adhesion. Cement laitance should be removed by wire brushing or grit sand blasting before priming with CONCRESlVE[®] 1020.

Thoroughly mix base and reactor components of the primer for 3 to 4 minutes and apply evenly to the substrate using a stiff brush. The contents of the container must be used within 45 minutes of mixing at 25°C.

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Priming should be carried out in advance of application of the mortar. It is essential to apply the mortar on top of the primer whilst the latter is still tacky. If the first priming coat should gel, apply a second priming coat before applying the mortar.

1 litre of CONCRESE[®] 1020 Primer will be sufficient to treat approximately 6 to 8m² (dependant on porosity and texture of surface).

The thoroughly mixed mortar should be used without delay and applied using a steel trowel. Press well into the primed surface and compact to ensure positive and permanent adhesion. Use a steel trowel to finish and bring resin to the surface.

For large areas layers should not exceed 50mm in thickness. However, for smaller repairs thickness up to 75mm can be applied. Minimum thickness is 3mm. Further priming is necessary between layers and the backing layer should be cross hatched before cure takes place to provide a mechanical key.

Coverage

A 5 kg pack will cover approximately 0.6m² at a thickness of 5mm (dependent on surface texture).

Storage

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which may also be tainted with vapour until product is fully cured). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use. For further information refer to the Material Safety Data Sheet.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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* Properties listed are based on laboratory controlled tests.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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