

# CONCRESlVE® 1020

## High performance epoxy primer

### Description

CONCRESlVE 1020 is a two component solvent free primer based upon epoxy resins for use with appropriate epoxy overlays and coatings to improve their adhesion to existing concrete substrate.

CONCRESlVE 1020 is non-tainting and can be used with safety in food processing areas.

### Uses

CONCRESlVE 1020 is used to bond epoxy coatings to concrete and other materials. Since it is non-tainting it can also be used with safety in food processing areas. CONCRESlVE 1020 is moisture tolerant and can be applied to damp, but not wet surfaces.

Typical substrates it is normally used are:

- Concrete
- Cementitious systems
- Timber
- Granolithic screeds
- Masonry paving
- Mild steel

### Advantages

- Very good mechanical properties
- Water resistance
- Excellent adhesion

### Typical properties

Density	: 1.08 kg/litre
Appearance	: Clear free flowing liquid
Volume solids	: 100 %
Mixing Ratio, by weight	: 2(Base): 1(Hardener)
Pot life	: 60 minutes at 25°C
	: 20 minutes at 40°C
Open time	: 360 minutes at 25°C
Adhesive bond strength to concrete (ASTM D4541)	: > 2 MPa at 25°C (Concrete failure)

### Specification Clause

The primer shall be CONCRESlVE 1020, a two component, solvent free epoxy resin based. It shall be formulated to meet the requirements of non-tainting for usage in food storage and potable grade structures. The primer shall form effective bond on the damp substrate and shall exhibit sufficient moisture tolerance. The primer shall exhibit excellent bond strength by exceeding adhesion of 2 MPa as per ASTM D 4541 testing. It shall be fully compatible with CONCRESlVE Range of repair mortars.

### Directions for use

#### Temperature Requirements

- Substrate temperatures: 15°C – 35°C
- Material temperatures: 15°C – 30°C

Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In the cold weather conditions, pre-condition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20-25°C will reduce the possibilities of flash/slow setting and other defects.

#### Surface Preparation

In new construction, concrete to receive high performance coating and overlay systems should be designed, mixed and placed in accordance with internationally accepted practices to ensure adequate strength to withstand the loads. Avoid over trowelling or over finishing with steel floats to minimise laitance.

Consult BASF's Technical Services Department for advice on concrete mix design, finishing methods and surface texture requirement for individual systems.

On existing substrates, laitance or concrete contaminated with oils, greases etc. should be completely removed by mechanical means to guarantee adhesion of the coating or overlay. Finally ensure the surface is dust free, using an industrial vacuum.

Specialist finishes should not be applied to concrete which contains more than 5% moisture by mass. The substrates can be considered sufficiently dry when the relative humidity at the surface falls to 75% or less when measured with a hygrometer to BS 8201 Appendix A.

Uneven concrete should be levelled to produce a smooth, flat surface. For heavy wear situations a suitable repair mortar from the EMACO or CONCRESlVE range should be used.

Prior to application, CONCRESlVE 1020 should be stored under cover and in dry conditions, and protected from extremes of temperature which will cause inconsistent workability and cure times of the mixed material. Application in cold conditions should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab as it may be considerably different from the surrounding air temperature. When temperatures exceed 30°C during application,

working times will be reduced significantly. Correct conditioning of the constituents is essential.

### Mixing

CONCRESLIVE 1020 is a two component product consisting of a Base and Hardener. The components are pre-weighed and should not be split or divided. Mixing of the Base and Hardener should continue for at least 1-2 minutes to produce a fully blended uniform material.

### Application

CONCRESLIVE 1020 is applied by brush or roller and worked well into the surface. Apply according to stated coverage.

CONCRESLIVE 1020 should be overlaid whilst it remains tacky. If allowed to cure, re-apply within 24 hours.

### Coverage

Coverage rates will vary according to the nature of the substrate.

1 Kg CONCRESLIVE 1020 shall cover 5 – 8 m<sup>2</sup> depending upon the porosity of the substrate.

### Packaging

CONCRESLIVE 1020 is available in 1 kg pack.

### Equipment care

Remove CONCRESLIVE 1020 from tools and equipment using CLEANING SOLVENT NO. 2 immediately after application.

### Storage and Shelf life

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.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

### 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 can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

### Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

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

### Disclaimer

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