

PRODUCT DATA SHEET

Sikadur[®]-2020

(formerly MProtect 2020)

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

DESCRIPTION

Sikadur[®]-2020 is a 3 component epoxy resin mortar and adhesive. The specially selected fillers and resins form an easily finished impervious mortar with high build characteristics combined with optimum chemical and mechanical resistance, ideal for a variety of bedding, gap filling and concrete repair application. Suitable for use in hot and tropical climatic conditions.

USES

- For surface repairs of fine cracks and spalls
- For gap filling, bedding fixtures
- For repairs to arrises without the use of form work
- Repairing surface defects or honeycombed concrete in horizontal, vertical or overhead situations
- Dowel bars anchoring
- Adhesive for concrete elements, hard natural stone, bricks and masonry.

FEATURES

- Light weight
- Suitable for high build application
- Suitable for vertical and overhead surfaces
- Good adhesion and cure under damp conditions
- Excellent chemical resistance
- Extended pot life and working time
- Low exotherm

PRODUCT INFORMATION

Composition	Epoxy based mortar filled with selected fine aggregate
Packaging	5 kg unit (A + B + C)
Shelf life	12 months from date of production
Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions. Protect from direct sunlight. In tropical climates, the product must be stored in an air-conditioned environment.
Density	~1.65 kg/l (mixed, at 25°C)

TECHNICAL INFORMATION

Compressive strength	≥ 45 N/mm ² (at 7 days)	(ASTM C579)
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APPLICATION INFORMATION

Consumption	~1.7 kg/m ² /mm thickness 5 kg unit is sufficient to cover approximately 0.6 m ² at 5 mm thickness. Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.
Layer thickness	3 mm min. / 50 mm max. Note: When using multiple units, use one after the other. Do not mix the following unit until the previous one has been used in order to avoid a reduction in handling time.
Ambient air temperature	+8°C min. / +45°C max.
Dew point	Beware of the condensation. Substrate temperature during application must be at least 3°C above dew point.
Pot Life	~120 min (at 25°C) ~90 min (at 40°C)
Curing time	~5 days (at 25°C)
Tack free time	~5 hours (at 25°C) ~3 hours (at 40°C)

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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 SikaEmaco® P 102. 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.

MIXING

Mix components A and B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (maximum 300 rpm) until the material becomes smooth in consistency and a uniform grey colour. Then add component C and continue until mixture is homogeneous. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approximately 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

APPLICATION

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.

Further priming is necessary if applied in multiple layers and the backing layer should be cross hatched before cure takes place to provide a mechanical key.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001, 14001, 45001 – SGS
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- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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