

PRODUCT DATA SHEET

Sikadur[®]-2020

(formerly MProtect 2020)

High strength, non-flow epoxy bedding and repair mortar

DESCRIPTION

Sikadur[®]-2020 is a non-slumping epoxy bedding compound and adhesive. It is a three- pack, fine aggregate filled, fast curing material ideal for a variety of bedding, gap filling and concrete repair applications. Sikadur[®]-2020 is a stiff, but easily workable, compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from below freezing point to 60°C. Its impact resistance and mechanical strength are greater than those of concrete.

USES

1. For surface repairs of fine cracks and spalls
2. For gap filling, grouting, bedding fixtures, etc.
3. For repairs to arrises without the use of form work
4. Wherever a thixotropic epoxy mortar is required
 - Bedding bridge beams or steel bridge bearings
 - Repairing surface defects or to honeycombing concrete in horizontal, vertical or overhead situations
 - Fixing slip bricks to concrete
 - Securing bolts into walls
 - Dowel bars anchoring
 - As a gap filling adhesive
 - Filling bolt pockets
 - Bedding tiles
 - Repairing concrete posts in-situ
 - Fixing of surface ports for crack injection

FEATURES

- High strength
- Non-slump
- Strong adhesion
- Impact resistant
- Chemical resistant
- Non-shrink
- Epoxy based
- Trowels to a smooth finish
- Easy to use
- Supplied in pre-weighed units
- No bonding agent or primer required

CERTIFICATES AND TEST REPORTS

ASTM C881 : Type 1, Grade 3 Classes B and C

PRODUCT INFORMATION

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| Composition | Three-component epoxy-based mortar filled with selected fine aggregate. |
| Packaging | Sikadur [®] -2020 is available in 10kg units. |

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| Colour | Grey |
| Shelf life | Up to 12 months if stored in unopened containers according to manufacturer's instructions. |
| Storage conditions | 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. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. |
| Density | 2200kg/m ³ at 25°C |

TECHNICAL INFORMATION

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|-----------------------------|--|
| Compressive strength | 75N/mm ² at 7 days |
| Chemical resistance | Sikadur®-2020 has excellent resistance to the following: most aqueous systems; sewage; urine; fresh water; seawater; diluted and concentrated alkalis; diluted acids; mineral; vegetable and animal oils and fats; ammonia and formaldehyde. |

APPLICATION INFORMATION

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|--------------------------------|---|
| Consumption | 15kg is sufficient to cover approximately 1.4m ² at 5mm thickness. |
| Ambient air temperature | Sikadur®-2020 will cure at temperatures as low as 0°C, although at low temperatures cure is retarded. |
| Pot Life | At 20°C : 40 minutes |
| Curing time | At 25°C : 5 days |
| Tack free time | At 20°C : 7 hours |

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All loose particles, laitance, dust, grease, etc. must be removed prior to application of Sikadur®-2020.

MIXING

The 10kg pack has been designed to be readily mixed by trowel. Where more than one pack is to be mixed at a time, a Mixal portable mixer (HD5 model) is suitable.

APPLICATION

Knife or trowel Sikadur®-2020 to the required level, using the minimum of solvent on the trowel to aid workability. The surface may be finished smooth by use of a paint brush dipped in solvent.

Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged, if required, by covering surface with cement powder before full cure is affected.

CLEANING OF EQUIPMENT

Clean with solvent, immediately after use.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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