

## PRODUCT DATA SHEET

# SikaPaver<sup>®</sup>-121

(formerly MCast 121)

Multi-purpose adhesive, surface sealer, primer and bonding agent admixture for mortar

### DESCRIPTION

SikaPaver<sup>®</sup>-121 is multi role bonding agent and admixture for cementitious systems. Where indicated, SikaPaver<sup>®</sup>-121 shall be used as an adhesive, sealer, primer, bonding agent and admixture. When used as a bonding agent, SikaPaver<sup>®</sup>-121 will bond cement screeds, rendering and plaster to most sound surfaces such as concrete, stone, brick, terrazzo, slate floor tiles and new concrete to old. When used as an admixture in cement, sand and granolithic screeds SikaPaver<sup>®</sup>-121 enables thin, jointless floor toppings and underlays. Suitable to use in hot and tropical climatic conditions.

### USES

- Bonding agent for cement screeds, render, plaster and concrete.
- Admixture for mortar.

### PRODUCT INFORMATION

<b>Packaging</b>	20 L cans, drums or 1000 L flowbin
<b>Shelf life</b>	12 months from date of production if stored properly
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight.
<b>Appearance and colour</b>	White liquid
<b>Density</b>	~1.03 kg/l (+25 °C)

### APPLICATION INFORMATION

<b>Consumption</b>	Neat; 1 litre per 6–12 m <sup>2</sup> Diluted 1:1; 1 litre per 16–24 m <sup>2</sup> Diluted 1:3; 1 litre per 24–40 m <sup>2</sup> Consumption will vary dependent upon surface porosity.
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### FEATURES

- Numerous applications
- Economical
- Simple to use
- Improved adhesive properties
- Quick drying

### CERTIFICATES AND TEST REPORTS

SikaPaver<sup>®</sup>-121 follows the requirements of BS 5270 and ASTM C1059

## 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.

## IMPORTANT CONSIDERATIONS

- High strength toppings should always be executed in accordance with established practice, including mechanical preparation of the substrate before application of SikaPaver®-121.
  - SikaPaver®-121 is not suitable where conditions of rising damp or permanent dampness are likely to occur.
  - Do not use when ambient temperature is less than 5°C.
  - SikaPaver®-121 should be laid at the desired consistency.
  - Do not over-trowel.
  - Minimum film forming temperature: 14°C to 15°C
- For further advice please consult our Sika Technical Department.

## 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 QUALITY / PRE-TREATMENT

The background must be sound since the adhesion of the mortar to the floor, wall or ceiling will only be as good as the substrate. Remove all flaking and cracking paint, plaster etc. from the substrate. Ensure that the substrate is dry, clean, free from dirt, dust and grease or loose material.

### APPLICATION METHOD / TOOLS

Apply using a brush, roller or spreader, and always use clean water.

#### **Bonding agent for cement screeds, renderings, plaster, etc. :**

- Seal the surface using 1 part SikaPaver®-121 to 4 parts of water.
  - Allow this to dry, then apply a bonding coat of 1 part SikaPaver®-121 diluted with 2 parts water (1:1 on low porosity surfaces). Screed, plaster or render on the tacky bonding coat using normal techniques.
- Cure cementitious screeds and renders properly.
- On totally non-absorbent surfaces such as polished granite, paintwork etc., the sealer coat may be omitted and the bonding coat should be 2 parts SikaPaver®-121 to 1 part water.

#### **Bonding new concrete to old concrete:**

- Always apply cement renders, screeds or plaster whilst the bonding coat is still tacky. If dry re-apply.
- Prime clean surface with 1 part SikaPaver®-121 diluted with 4 parts of water and allow to dry.
- Apply a bonding coat of SikaPaver®-121 diluted with an equal volume of water and lay the new concrete while this coat is still tacky.

Alternatively, for higher bonding strength, prepare a slurry by adding 5 L of SikaPaver®-121 per 100 kg of cement with a recommender w/c ratio of 0.3.

#### **As a surface sealing coat:**

- To seal highly porous and dusty, friable concrete or granolithic subfloors, apply 2 coats of SikaPaver®-121 diluted at the rate of 1 part SikaPaver®-121 to 4 parts water and a final coat diluted 1 part SikaPaver®-121 to 3 parts water.
- Allow each coat to dry before proceeding.
- On less porous floors, the first coat may be omitted.

#### **As bitumen primer:**

To prevent bitumen coatings bleeding through subsequent films, they may be primed with 1 part of SikaPaver®-121 diluted with 1 part of water which will form an efficient barrier and may then be covered with most oil based paints.

#### **As an admixture in cement/sand and granolithic screeds:**

- The use of SikaPaver®-121 in the mix allows thin, jointless floor screeds (9–18mm thick) to be laid.
- For domestic and other areas subject to light traffic, use screed with 20 % SikaPaver®-121 by weight of binder.
- For an industrial floor finish or where there is heavy traffic, use screed with 30 % SikaPaver®-121 by weight of binder.
- Lay the screed on to the tacky bonding coat, tamping well to ensure maximum contact with the floor beneath. Trowel to a smooth finish.

## CLEANING OF EQUIPMENT

Clean equipment with water immediately after use.

## 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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- Sika Gulf B.S.C. (c)  
- Sika MB Construction Chemicals for Manufacturing LLC  
- Sika MB Construction Chemicals for Manufacturing LLC  
- 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.



### Product Data Sheet

SikaPaver®-121

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