

## PRODUCT DATA SHEET

# Sikafloor<sup>®</sup>-532 IN

Polyaspartic fast setting UV-stable flooring top coat

### DESCRIPTION

Sikafloor<sup>®</sup>-532 IN is a 2-part polyaspartic coloured UVstable flooring resin. It provides a colour stable, hard wearing top coat over smooth as well as aggregate broadcast epoxy, polyurethane floors.

### USES

The Product is used as a:

- Fast-curing top coat where high wear resistance, good colour retention when exposed to UV-radiation and good chemical resistance is required. Particularly suited for high trafficked condition.
- Fast-curing maintenance coating for production areas, balconies and walkways, car parks and line marking applications.
- Primer when overcoated by itself. Can be applied as thin coating over Sikafloor Epoxy and PU floor top-pings for Industrial applications

### CHARACTERISTICS / ADVANTAGES

- Low odour
- High abrasion resistance
- Very good resistance to permanent UV exposure
- Easy to apply
- Fast curing increases productivity and saves time

### PRODUCT INFORMATION

|                            |  |                    |
|----------------------------|--|--------------------|
| <b>Chemical base</b>       | Polyaspartic   |                    |
| <b>Packaging</b>           | Part A   | 3kg container      |
|                            | Part B   | 1 kg container     |
|                            | Part (A+B)   | 4kg Set            |
| <b>Appearance / Colour</b> | Part A   | Coloured liquid    |
|                            | Part B   | Transparent liquid |
|                            | Cured appearance   | Glossy             |
| <b>Shelf life</b>          | 12 months from date of production  |                    |
| <b>Storage conditions</b>  | The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.<br>Refer to the current Safety Data Sheet for information on safe handling and storage. |                    |

|         |        |           |                 |
|---------|--------|-----------|-----------------|
| Density | Part A | 1.35 kg/l | (EN ISO 2811-1) |
|         | Part B | 1.16 kg/l |                 |
|         | Mixed  | 1.30 kg/l |                 |

Solid content 92% by weight

## TECHNICAL INFORMATION

|                           |   |              |
|---------------------------|---|--------------|
| Shore D hardness          | 60 at 7days                               | (ASTM D2240) |
| Abrasion resistance       | 100mg (CS17,1000 cycles, 7D)              | (ASTM D4060) |
| Compressive strength      | >30 MPa at 7days                          | (ISO 604)    |
| Flexural strength         | >15 MPa at 7days                          | (ISO 178)    |
| Tensile strength          | 18 MPa at 7days                           | (ASTM D412)  |
| Elongation                | >4%                                       | (ASTM D412)  |
| Tensile adhesion strength | >1.5 N/mm <sup>2</sup> (Concrete failure) | (ASTM D4541) |

## APPLICATION INFORMATION

|                            |  |                        |
|----------------------------|--|------------------------|
| Mixing ratio               | 100 : 33   |                        |
| Consumption                | Smooth surfaces  | ~0.5 kg/m <sup>2</sup> |
| Ambient air temperature    | +10 °C min. / +35 °C max.  |                        |
| Relative air humidity      | 50% min. / 80% max.  |                        |
| Dew point                  | Beware of condensation!<br>The substrate and uncured floor must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming |                        |
| Substrate temperature      | +10 °C min. / +35 °C max.  |                        |
| Substrate moisture content | ≤ 4 % parts by weight<br>The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).   |                        |
| Pot life                   | 15-20 minutes @25°C  | (ASTM D2471)           |
| Curing time                | Tack free@25°C   | 8 hours                |
|                            | Foot traffic@25°C  | 16 hours               |
|                            | Full traffic@25°C  | 24 hours               |

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

## SYSTEM INFORMATION

| Systems | Layer          | Product           | Consumption                 |
|---------|----------------|-------------------|-----------------------------|
|         | Primer         | Sikafloor®-161 HC | 0.30–0.50 kg/m <sup>2</sup> |
|         | Smooth coating | Sikafloor®-532 IN | 0.50 kg/m <sup>2</sup>      |

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

## 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.

## IMPORTANT CONSIDERATIONS

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Do not blind the primer.
- Freshly applied Sikafloor®-532 IN must be protected from damp, condensation and water for at least 72 hours.
- Beware of air flow and changes in air flow. This may lead to introduction of dust, debris, and particles, etc. resulting in surface imperfections and other defects.
- For roller coatings, uneven substrates as well as inclusions of dirt cannot and must not be covered by thin sealer coats. Therefore both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For consistent colour matching, ensure the Sikafloor®-532 IN in each area is applied from the same control batch numbers.

## 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

### EQUIPMENT

#### MIXING EQUIPMENT

- Electric double paddle mixer (>700 W, 300 to 400 rpm)

#### APPLICATION EQUIPMENT

- Serrated trowel
- Spike roller

### SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or diamond grinding equipment to remove cement laitance and achieve an open textured surface gripping surface profile

suitable for the product thickness.

- High spots can be removed by grinding. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum extraction equipment.

### MIXING

#### TOP COAT MIXING PROCEDURE

- Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
- Add Part B (hardener) to Part A.
- **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~2 minutes until a uniformly coloured mix is achieved.
- To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
- During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

### APPLICATION

- Pour the mixed Product onto the substrate. Note: The consumption is specified in Application Information.
- Spread the Product evenly over the surface with a Squeeze/Serrated trowel .
- Back roll the surface in two directions at right angles with a fleece roller/spike roller to remove the air from coating. Note: Maintain a "wet edge" during application to achieve a seamless finish.

### CLEANING OF TOOLS

Clean all tools and application equipment with Xylene based Thinner immediately after use. Hardened material can only be removed mechanically. To prevent the nozzle from blocking, regularly clean the spraying equipment during application.

## 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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### Product Data Sheet

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