BUILDING TRUST

PRODUCT DATA SHEET

# Sikafloor®-1205

(formerly MTop 1205)

Three component, total solids, high build epoxy floor coating

## DESCRIPTION

Sikafloor®-1205 is a pigmented, solvent-free, high build epoxy floor coating system designed to offer seamless durable floor protection.
With the addition of Sikadur® Aggregates between coats, slip resistant finish can be achieved.
Suitable for use in hot and tropical climatic conditions.

## USES

Sikafloor®-1205 may only be used by experienced professionals.

Sikafloor®-1205 exhibits excellent wear, abrasion and chemical resistance and is suitable for use in a wide variety of industrial and commercial applications. It can be used to provide a surface coating with a high gloss hygienic finish or a slip resistant coating system.

Sikafloor®-1205 provides impermeable protection against common oils, greases, lubricants, aviation fuels and hydraulic oils such as Skydrol. As in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability.
Sikafloor®-1205 can be used, but it is not limited to the following areas of application:

- Car parks
- Chemical manufacturing plants
- Pharmaceutical and other medical facilities
- Car production and showroom facilities
- Aircraft hangers and maintenance areas
- Warehouses with high density traffic
- Vehicle movement areas

## CHARACTERISTICS / ADVANTAGES

- Very good wear and abrasion resistance
- Good chemical resistance
- Smooth high gloss finish for hygienic applications
- Slip resistant finish in trafficable applications
- Easy application by brush, roller or squeegee

## PRODUCT INFORMATION

| | |
|---|---|
| **Chemical Base** | Epoxy resin |
| **Packaging** | 32 kg (20 L) 3-component pack (including colour pack) |
| **Colour** | Available in various colour shades, please request Sika sales representative for colour chart. |
| **Shelf Life** | 12 months from date of production |
| **Storage Conditions** | Store in a dry area in original sealed packaging at temperatures between +10°C and +30°C. Protect from direct sunlight, heat and moisture. |
| **Density** | ~1.6 kg/l (Mixed resin at +25°C) |

| | |
|---|---|
| **Solid content by weight** | ~100 %<br>Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals) |
| **Solid content by volume** | ~100 %<br>Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals) |

## TECHNICAL INFORMATION

| | | |
|---|---|---|
| **Tensile Strength in Flexure** | ~40 N/mm² | (ASTM C580) |
| **Tensile Strength** | ~20 N/mm² | (ASTM C307) |
| **Tensile Adhesion Strength** | ≥ 1.5 N/mm² (or concrete failure) | (BS 1881 Part 207) |
| **Chemical Resistance** | Resistant to many chemicals, when fully cured. Please contact Sika's Technical Department for chemical resistance table.<br>Sikafloor®-1205 provides impermeable protection against common oils, greases, lubricants, aviation fuels and hydraulic oils such as Skydrol. As in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data, to ensure product suitability. | |
| **Service Temperature** | Dry heat permanent exposure up to +60°C. | |

## APPLICATION INFORMATION

**Consumption**

| Smooth Finish | Slip Resistant Finish |
|---|---|
| 0.20 - 0.25 L/m²/coat, min. 2 coats | 0.25 - 0.30 L/m²/coat, min 2 coats + aggregates* |

* Sikadur® Aggregate series, approx. 0.6-1.0 kg/m².
These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage, etc.

**Ambient Air Temperature**

+10°C min. / +35°C max.

**Relative Air Humidity**

80 % r.h. max.

**Dew Point**

Beware of condensation!
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.
Note: Low temperatures and high humidity conditions increase the probability of blooming.

**Substrate Moisture Content**

< 5 % pbw moisture content.

Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.
No rising moisture according to ASTM (Polyethylene-sheet).

**Pot Life**

~35 min (+25°C)

**Curing Time**

| | |
|---|---|
| Initial Cure | 24 hours |
| Final Cure | 7 days |

Note: Curing times are approximate and will be affected by changing ambient conditions.

**Waiting Time / Overcoating**

| Substrate temperature | Minimum | Maximum |
|---|---|---|
| +20°C | 24 h | 2 d |
| +30°C | 16 h | 1 d |

Times are approximate and will be affected by changes in ambient conditions, particularly temperature and relative humidity.

## 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.

## FURTHER DOCUMENTS

- **General Method Statement**
- **Substrate quality & Preparation:** Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".
- **Application instructions:** Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".
- When required, Sikafloor®-1205 can be overcoated with UV resistant top coat, if exposed to UV light. Please contact your local Sika representative for more information.

## LIMITATIONS

- Sikafloor®-1205 can be used as self-priming system and normally does not require priming coat, except in cases of high substrate porosity.
- Do not apply Sikafloor®-1205 on substrates with rising moisture.
- In case of rising substrate moisture, use EpoCem® range of products. Contact Sika Technical Department for recommendation.
- Freshly applied Sikafloor®-1205 must be protected from damp, condensation and water for at least 24 hours.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should 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 exact colour matching, ensure the Sikafloor®-1205 in each area is applied from the same control batch numbers.
- Do not expose the Product to chemical or mechanical strain at elevated temperatures.
- Expansion joints in the existing substrate floor must continue through the Sikafloor®-1205 coating.

## 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

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

Concrete substrates must be prepared mechanically using light grit blasting, captive blasting or surface grinding to achieve an open textured surface.

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 irregularities must be carried out using appropriate products from the Sikafloor®, Sikadur®, Sikagard® and SikaEmaco® range of materials.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

### MIXING

Prior to mixing, stir Part A mechanically. When all of Part B has been added to Part A, mix continuously for 2 minutes until a uniform mix has been achieved. When parts A and B have been mixed, add Part C - Sikafloor® colour pack and mix for a further 2 minutes, until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again. Overmixing must be avoided.

### APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

**As a Primer:**
Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.

**Levelling:**
Rough or unlevelled surfaces need to be levelled first. Use Sikafloor® epoxy based range of products (Thin section epoxy build-up repairs for concrete substrates Method Statement). Sikafloor® BC range can be used as epoxy based underlayments. Contact Sika Technical Department for recommendation.

**Coating:**
Sikafloor®-1205 as coating, can be applied by short-piled roller (crosswise). Re-apply second coat by squeegee and then back-roll (crosswise).

**For slip resistant finishes:**
Apply the base coat first. This coat can then be scattered with Sikafloor® SR 2 or Sikafloor® SR 3 aggregate, by completely blinding at approximately 0.6-1.0 kg/m². Apply aggregate to wet base coat. After initial cure (12 hours at 40°C) the excess aggregate should be removed by brushing or vacuuming. Alternative textures can be obtained by varying the amount of aggregate.
**Seal coat:**
Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller. Depending on the surface profile, type and density when applied over aggregate, the top coat may consume more material than the base coat to achieve a fully sealed surface.

### CLEANING OF TOOLS

Remove uncured Sikafloor®-1205 from tools and equipment using a suitable thinner (Xylene / MEK / Acetone). If Sikafloor®-1205 has cured, then it can only be removed by mechanical means.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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