

Sikafloor®-357

2-part PUR coloured matt finish seal coat

Product Description Sikafloor®-357 is a two part, tough elastic, pigmented, colour stable, solvent containing, polyurethane matt finish seal coat.

Uses

- n Matt finish seal coat for Sikafloor® smooth epoxy or polyurethane coatings
- n Matt finish seal coat for Sikafloor® broadcast systems Matt finish seal coat for Sikafloor® broadcast and sealed screeds
- n Matt finish seal coat for concrete and cement screeds
- n Normal to medium mechanical and chemical loading

Characteristics / Advantages

- n Tough-elastic
- n Good mechanical and chemical resistance
- n High colour stability
- n Easy application

Product Data

Form

Appearance / Colours Resin - part A: coloured, liquid
Hardener - part B: milky, liquid

Standard colours: ca. RAL 7030, ca. RAL 7032, ca. RAL 7037
Slight colour variations might be possible, due to the influence of raw materials.

Other colour shades available.

Packaging Part A: 7.0 kg
Part B: 3.0 kg
Part A+B: 10 kg unipacks

Storage Conditions / Shelf Life 6 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Technical Data

Chemical Base PUR

Density Part A: ~ 1.39 kg/l
Part B: ~ 1.08 kg/l (DIN EN ISO 2811-1)
Mixed Resin: ~ 1.28 kg/l

All Density values at +23°C.

Solid Content ~ 64% (by volume) / ~ 74% (by weight)



Mechanical / Physical Properties

Abrasion Resistance 70 mg (CS 10/1000/1000) (28 days / +23°C) (DIN 53109 Taber Abrader Test)

Resistance

Chemical Resistance Resistant to many chemicals. Please ask for a detailed chemical resistance table.

Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°C
Short-term max. 8 h	+100°C

Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)

*No simultaneous chemical and mechanical exposure.

System Information

System Structure

Seal coat for concrete and cement screeds:

Primer: 1 - 2 x Sikafloor®-156
Seal coat: 2 x Sikafloor®-357

Seal coat for smooth EP / PUR coatings:

Base coat: Sikafloor®-261 or -325
Seal coat: 1 - 2 x Sikafloor®-357

Seal coat for EP / PUR broadcast systems:

Base coat: e.g. Sikafloor®-261 or -325 + quartz sand
Seal coat: 1 - 2 x Sikafloor®-357

Matt finish for sealed broadcast systems:

Base coat: e.g. Sikafloor®-261 or -325 + quartz sand
Seal coat: e.g. Sikafloor®-261 or -325
Matt seal coat: 1 x Sikafloor®-357

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor®-156	0.3 - 0.5 kg/m ²
Levelling (optional)	Sikafloor®-156 mortar	Refer to PDS of Sikafloor®-156
Seal coat for concrete and cement screeds	Sikafloor®-357	~ 0.3 kg/m ² per layer
Seal coat for smooth EP / PUR coatings	Sikafloor®-357	~ 0.15 kg/m ² per layer
Seal coat for EP / PUR broadcast systems	Sikafloor®-357	~ 0.40 kg/m ² per layer
Finishing of sealed broadcast systems	Sikafloor®-357	0.15 - 0.30 kg/m ²

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

Substrate Quality	<p>Concrete substrates must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².</p> <p>The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.</p> <p>If in doubt, apply a test area first.</p>
Substrate Preparation	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>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.</p> <p>The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>
Application Conditions / Limitations	
Substrate Temperature	+10°C min. / +30°C max.
Ambient Temperature	+10°C min. / +30°C max.
Substrate Moisture Content	<p>≤ 4% pbw moisture content.</p> <p>Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.</p> <p>No rising moisture according to ASTM (Polyethylene-sheet).</p>
Relative Air Humidity	80% r.h. max.
Dew Point	<p>Beware of condensation!</p> <p>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.</p>
Application Instructions	
Mixing	Part A : part B = 70 : 30 (by weight)
Mixing Time	<p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimise air entrainment.</p>
Mixing Tools	Sikafloor®-357 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
Application Method / Tools	<p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p>If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Seal coat:</i> Uniformly spread Sikafloor®-357 by using a short pile nylon roller.</p> <p>A seamless finish can be achieved if a "wet" edge is maintained during application.</p>
Cleaning of Tools	Clean all tools with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

Potlife

Temperature	Time
+10°C	~ 60 minutes
+20°C	~ 30 minutes
+30°C	~ 15 minutes

Waiting Time / Overcoating

Before applying Sikafloor®-357 on Sikafloor®-156 / -261 / -325 allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	4 days
+20°C	24 hours	3 days
+30°C	12 hours	2 days

Before applying Sikafloor®-357 on Sikafloor®-357 allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	4 days
+20°C	24 hours	2 days
+30°C	16 hours	2 days

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

Notes on Application / Limitations

Do not apply Sikafloor®-357 on substrates with rising moisture.

Freshly applied Sikafloor®-357 must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on surface with the primer.

Uncured material reacts in contact with water (foaming). During application care must be taken that no sweat drops into fresh Sikafloor®-357 (wear head and wrist bands)

Apply Sikafloor®-357 when Sikafloor-261 or -325 etc. are tack free.

Unevenness of the substrate and inclusions of dirt cannot be covered by thin sealer coats. Therefore the substrate and adjacent areas must be cleaned thoroughly prior to application.

Tools

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure that Sikafloor®-357 in each area is applied from the same control batch numbers.

Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Curing Details

Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 36 hours	~ 5 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 16 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions

**Cleaning /
Maintenance**

Methods

To maintain the appearance of the floor after application, Sikafloor®-357 must have all spillages removed immediately and be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc using suitable detergents and waxes.

Value Base

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.

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.

**Health and Safety
Information**

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

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.

CE Labelling

The harmonized European Standard EN 13 813 „Screed material and floor screeds - Screed materials - Properties and requirements“ specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

CE	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
04 ¹⁾	
EN 13813 SR-B1,5	
Primer/Sealer (systems as per Product Data Sheet)	
Reaction to fire:	NPD ²⁾
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD
Abrasion Resistance:	NPD ²⁾
Bond strength:	B 1,5
Impact Resistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

¹⁾ Last two digits of the year in which the marking was affixed.

²⁾ No performance determined.

EU Regulation 2004/42

VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product.

The maximum content of **Sikafloor®-357** is < 500 g/l VOC for the ready to use product.



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