Construction

Sikafloor®-410

1-part PUR elastic matt seal coat

Product Description	Sikafloor®-410 is a one part, elastic, solvent containing, UV resistant, moisture curing polyurethane resin based matt seal coat.
Uses	■ Abrasion resistant seal coat with crack-bridging properties ■ Seal coat for Sikafloor®-400 N Elastic and Sikafloor®-400 N Elastic+ ■ Only for exterior application
Characteristics / Advantages	■ Crack-bridging elastic seal coat ■ UV resistant, non-yellowing ■ Abrasion resistant with normal use ■ Slip resistant surfaces are possible ■ Easy application

Product Data

Form

Appearance / Colour	Transparent liquid
Packaging	3 litres and 10 litres units

Storage

Storage Conditions / Shelf Life	9 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	Resin: ~ 1.0 kg/l Density value at +23°C	(DIN EN ISO 2811-1)
Solid Content	~ 45% (by volume) / ~ 50% (by weight)	

Mechanical / Physical Properties

Tensile Strength	~ 27 N/mm² (14 days / +23°C)	(DIN 53505)
Elongation at Break	~ 300% (14 days / +23°C)	(DIN 53504)

Resistance

Chemical Resistance

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

Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C

*No simultaneous chemical and mechanical exposure.

System Information

System Structure

Seal coat for smooth coatings:
Coating: Sikafloor®-400 N Elastic / Sikafloor®-400 N Elastic+
Seal coat: 1 x Sikafloor®-410

Seal coat for broadcast systems:
Coating: Sikafloor®-400 N Elastic / Sikafloor®-400 N Elastic+, broadcast to excess with quartz sand or coloured chips
Seal coat: 2 x Sikafloor®-410

Slip resistant seal coat:
Coating: Sikafloor®-400 N Elastic / Sikafloor®-400 N Elastic+
Seal coat: Sikafloor®-410 + quartz sand 0.1 - 0.3 mm

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Matt seal coat for smooth coatings of Sikafloor®-400 N Elastic / Elastic+	Sikafloor®-410	~ 0.15 kg/m²
Matt seal coat for broadcast coatings Sikafloor®-400 N Elastic / Elastic+	2 x Sikafloor®-410	0.3 - 0.5 kg/m²
Slip resistant seal coat	Sikafloor®-410 + 3-5 wt.-% quartz sand 0.1 - 0.3 mm	~ 0.15 kg/m²

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

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

Pull-off strength must be not less than 1.5 N/mm²

If in doubt, apply a test area first.

Substrate Preparation

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

Application Conditions / Limitations

Substrate Temperature

+10°C min. / +30°C max.

Ambient Temperature

+10°C min. / +30°C max.

Relative Air Humidity

80% r.h. max.

35% min. (below +20°C: 45% min.)

Dew Point

Beware of condensation!

The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing Time

Prior to use stir Sikafloor®-410 mechanically for 3 minutes.

If the addition of quartz sand is required it must be added into the Sikafloor®-410 until a uniform mix has been achieved.

Over mixing must be avoided to minimise air entrapment.

Mixing Tools

Sikafloor®-410 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools

Prior to application, confirm substrate moisture content, r.h. and dew point.

Sealer coat:
Uniformly spread Sikafloor®-410 using a short pile nylon roller.

A seamless finish can be achieved if a 'wet' edge is maintained during application.

Cleaning of Tools

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

Potlife

The material in opened containers should be applied immediately. With open containers surface film formation will happen within 1 - 2 hours.

High temperatures and high air humidity will accelerate curing significantly.

Waiting Time / Overcoating

Before applying Sikafloor®-410 on Sikafloor®-400 Elastic / Sikafloor®-400 Elastic+ allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	5 days
+20°C	8 hours	3 days
+30°C	5 hours	2 days

Before applying Sikafloor®-410 on Sikafloor®-410 allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	5 days
+20°C	8 hours	3 days
+30°C	5 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 use for interior applications.

Freshly applied Sikafloor®-410 must be protected from damp, condensation and water for at least 24 hours (+20°C).

Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealer coats. Therefore substrates 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

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O 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	Rain resistant	Foot traffic	Full cure
+10°C	~ 15 hours	~ 24 hours	~ 7 days
+20°C	~ 5 hours	~ 8 hours	~ 5 days
+30°C	~ 3 hours	~ 5 hours	~ 4 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®-410 must have all spillages removed immediately and be regularly cleaned using rotary brushes, mechanical scrubbers, scrubber dryers, high pressure washers, 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 shall 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.

Construction

All Products are manufactured under a management system certified to confirm to the requirements of the quality environmental and occupational health and safety standards ISO 9001, ISO 14001 and OHSAS 18001.

Sika UAE LLC
P.O. Box 126212
Dubai
United Arab Emirates
Tel: +971 4 4398200
Fax: +971 4 4393606
info@ae.sika.com
www.gcc.sika.com

Sika Gulf B.S.C
Building 925, Road 115
Sitra Area 601
Adliya, Kingdom of Bahrain
Tel: +973 17738 188
Fax: +973 17732 476
Sika.gulf@bh.sika.com
www.gcc.sika.com

Sika Saudi Arabia Co. Ltd
Obaikan Building
Al-Zahra
Jeddah 23522-4522
Saudi Arabia
Tel: +966 2 692 7079
Fax: +966 2 692 1272
www.gcc.sika.com