



# Sikafloor® 400 Elastic

## Coloured High Elastic Polyurethane Coating

### Technical Data Sheet

#### DESCRIPTION

**Sikafloor 400 Elastic** is a one component low solvented coloured high elastic polyurethane coating for internal or external floors and containment tanks.

#### USES

- \* Balconies/terraces.
- \* Staircases.
- \* Bund linings.
- \* Storage areas.
- \* Walkways.
- \* Process areas.
- \* Concrete and masonry containment tanks/bunds.
- \* Manufacturing process areas.
- \* Roofs

#### ADVANTAGES

- \* One component.
- \* Good chemical resistance.
- \* Crack bridging.
- \* Waterproof.
- \* Easy application.
- \* UV resistant.
- \* Weather resistant.
- \* Slip resistant.
- \* Good abrasion resistance.
- \* Fast drying.
- \* Durable.
- \* Easily maintained.
- \* Non yellowing.

#### Technical Data (typical)

**Colour:** Refer to colour chart and price list  
**Density (SG):** Approx 1.6 kg/litre  
**Volume solids:** Approx 77%  
**Application temperatures & humidity conditions:** +10°C min, +30°C max (Substrate and ambient)  
 RH 80% max  
 +3°C above dew point

**Substrate M.C. & RH** ≤4% by Wt or ≤75% RH

#### MECHANICAL PROPERTIES:

**Layer thickness:** 0.3 - 2.0 mm

**Elongation at break:** 320% @ 23°C

**Abrasion resistance:** 30 mg (Taber)

#### CHEMICAL RESISTANCE:

(Consult Sika Ltd for additional information) Water, diesel, fuel, transformer oil, mineral oils.

#### Additional application information:

##### Waiting time between primer coats:

	+10°C	+20°C	+30°C
min	36 hrs	24 hrs	12 hrs
max	6 days	4 days	2 days

##### Between coats:

Min	1 day	6-8 hrs	5-6 hrs
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##### Final drying times:

Foot traffic:	-	7 hrs	-
Fully serviceable:	-	7 days	-

All above values are approximate.

#### SYSTEM TABLE

Use	Light Wear	Medium Wear	High Wear	With coloured flake surface design	With coloured quartz surface design
Product	1 x Sikafloor 400 Elastic +10% Thinner C	1 x Sikafloor 156 0.3 - 0.6 kg/m <sup>2</sup>			
Broadcast	-	-	Broadcast to excess with quartz sand	-	Broadcast to excess with coloured quartz sand (0.3-0.8 mm) to suit
Coating Sikafloor 400	0.4-0.6 kg/m <sup>2</sup>	0.6-1.2 kg/m <sup>2</sup>	1.5 kg/m <sup>2</sup>	0.6-1.2 kg/m <sup>2</sup>	0.6-1.2 kg/m <sup>2</sup>
Decorative effect	-	-	-	Sprinkle with coloured flakes to suit	-
Matt Sealer	-	-	-	1-2 x Sikafloor 410 Elastic	

## SURFACE PREPARATION

The cementitious substrate should be sound and of sufficient compressive strength. (Min 25 N/ mm<sup>2</sup>) . Minimum pull off strength 1.5 N/mm<sup>2</sup>.

The surfaces must be dry and free of all contaminants eg oils, grease, surface treatments and coatings etc. The substrate must be prepared mechanically to achieve an open textured fine gripping surface, free of cement laitance. Weak concrete should be removed and surface defects such as blowholes and voids must be fully exposed.

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

Repairs to cementitious substrate and filling of blowholes levelling of irregularities etc should be carried out using an appropriate product from the **SikaDur**<sup>®</sup>, **Sikafloor**<sup>®</sup> or **SikaGard**<sup>®</sup> range of materials.

## MIXING

Mix thoroughly with a low speed electric stirrer (300 - 400 rpm).

## APPLICATION

Prior to application, confirm substrate moisture content and RH. If >4% by wt or >75% RH. **Sikafloor**<sup>®</sup> **EpoCem**<sup>®</sup> may be applied as a D.P.M. system

Apply **Sikafloor 400 Elastic** on to "tack free" primed substrate by roller, brush or trowel.

For a decorative design system, apply whilst **Sikafloor 400 Elastic** is wet.

## IMPORTANT CONSIDERATIONS

- \* Construction joints require pre treatment with a stripe coat. Contact **Sika Ltd** for further details.
- \* Do not apply **Sikafloor 400 Elastic** on substrates in which significant vapour pressure may occur.
- \* Both **Sikafloor 400 Elastic** and **Thinner C** are flammable. NO NAKED FLAMES.
- \* Always ensure good ventilation when using **Sikafloor 400 Elastic** in a confined space.
- \* Freshly applied **Sikafloor 400 Elastic** should be protected from damp, condensation and water for at least 5 hours (23°C @ 50% air humidity).
- \* At high relative humidity curing will be accelerated.
- \* Skinning may occur on material left in opened resealed containers remove skin before re-using.
- \* For verticals and inclined surfaces >4% use **Sikafloor Elastic** with 2-4% **Extender T**.
- \* **Sikafloor 400 Elastic** may be stained by wine, tea, coffee leaves etc.
- \* The granulometry of the dried quartz sand should be selected to achieve the customers slip resistance requirements.

## CLEANING EQUIPMENT

Use **Thinner C**. Hardened material may have to be mechanically removed.

## PACKAGING

Refer to latest price list

## CONSUMPTION

See system table. (These figures do not allow for surface porosity, profile or wastage). Maximum yield per pack - refer to current price list.

## STORAGE AND SHELF LIFE

Minimum 6 months in sealed containers stored in dry warehouse conditions (+5°C - +25°C).

### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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