

Sikafloor®-155 WN

2-part water based epoxy resin primer

Product Description

Sikafloor®-155 WN is a solvent free, water dispersed two part primer based on epoxy resin.

Uses

As a primer and adhesion promoter on prepared:

- Concrete
- Cementitious screeds
- Hardened concrete floors
- Existing epoxy floor coatings
- EpoCem levelling layers

As a primer for:

- Sikafloor®-81 EpoCem®
- Sikafloor® Purcem ranges

Characteristics / Advantages

- Easy and fast to apply
- Solvent free according to KEL-CH
- Water dispersed
- Long pot life
- Odourless
- Excellent bond strength over its whole application temperature range
- Environmentally friendly

Product Data

Form

Appearance / Colours	■ Resin, part A	coloured thick paste
	■ Hardener, part B	light yellow translucent paste
	■ Mixed resin	Oxide red

Packaging 30 kg ready to mix sets

Storage

Storage Conditions / Shelf-Life 12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.

Construction



Technical Data

Chemical Base	Water based epoxy
Density	~ 1.4 kg/ltr mixed resin (at +20°C)
Solid Content	~ 56% (by volume)

System Information

System Structure	1 - 2 coats (dependent on substrate porosity)
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Application Details

Consumption / Dosage	0.3 - 0.5 kg/m ² per coat (2 - 3.3 m ² per kg per coat) Sikafloor®-155 WN, diluted with 10% water by weight. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.
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Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (25 N/mm ² min.) with a minimum pull-off strength of 1.5 N/mm ² . The substrate can be damp but must be free of standing water (no puddles!) and be free of all contaminants such as oils, grease, coatings, surface treatments, etc.
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Substrate Preparation	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled 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 levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
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Application Conditions / Limitations

Substrate Temperature	+10°C min. / +35°C max.
Ambient Temperature	+10°C min. / +35°C max.
Substrate Humidity	Test method Sika®-Tramex meter or CM. Always confirm substrate moisture content prior to the application of the primer. No rising moisture according to ASTM test (Polyethylene sheet).
Relative Air Humidity	75% 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.

Application Instructions

Mixing Part A : B = 3 : 1 by weight

Mixing Time Prior to mixing, mechanically stir part A (resin) well, then add all of part B (hardener) and mix both liquid parts thoroughly for one minute until a uniform mix has been achieved.

When parts A and B have been mixed, slowly add 10% of clean water while mixing continues for a further two minutes, until a uniform mix has been achieved.

To ensure thorough mixing, pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimise air entrainment.

Mixing Tools Low speed electric stirrer (~ 300 - 400 rpm).

Application Method / Tools Apply Sikafloor®-155 WN by suitable brush, roller or trowel and overwork with a roller.

Caution:

The end of the product's potlife is not noticeable! Keep within the limitations mentioned below. Discard material not used within these times.

Cleaning of Tools Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

Potlife

Temperature	Time
+10°C	~ 180 minutes
+20°C	~ 90 minutes
+30°C	~ 45 minutes

Caution: expiry of potlife without visible change. (Above values at 75% r.h.)

Waiting Time / Overcoating

Before applying Sikafloor®-81 / -82 EpoCem® onto Sikafloor®-155 WN allow:

Substrate temperature	Waiting time	
	Minimum	Maximum
+10°C	12 hours	72 hours
+20°C	6 hours	48 hours
+30°C	4 hours	24 hours

At low temperatures and / or high humidity curing time will increase. Apply subsequent coats only to tack free primer.

For use as a primer for the Sikafloor®-Level® or Sikafloor®-PurCem® range with full blinding with sand, allow :

Substrate temperature	Waiting time	
	Minimum	Maximum
+10°C	24 hours	Not applicable
+20°C	12 hours	Not applicable
+30°C	6 hours	Not applicable

Notes on Application / Limitations

At low temperatures and/or high humidity, the curing time will increase.
 Protect application from rain / water while reaction and curing takes place.
 Dilution of the first coat with 10% of water by weight helps improve bond on dense and only slightly absorbent substrates, as well as reducing the consumption of material on excessively porous substrates. When applying a second coat, always use it undiluted.
 Make sure to monitor and control the pot life of the mix as the end of pot life is not visibly noticeable. Discard any material at the pot life limits indicated for the existing application conditions!

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.

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 (available upon request) containing physical, ecological, toxicological and other safety-related data.

Legal 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 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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