

PRODUCT DATA SHEET

Sikalastic®-831 R UV

Liquid applied two part pure polyurea membrane with high UV resistance

DESCRIPTION

Sikalastic®-831 R UV is a two part, elastic, 100% solids, very fast curing aliphatic polyurea liquid applied membrane which is highly UV resistant. Sikalastic®-831 R UV can only be spray applied with special two part hot spray equipment.

USES

Sikalastic®-831 R UV may only be used by experienced professionals.

For roof waterproofing solutions in both new construction and refurbishment projects:

- Terraces
- Roof screeds

Coatings for scenery and decorative structures.

FEATURES

- High UV resistance
- Very fast curing time
- Easy to detail, even when accessibility is limited
- High impact, abrasion and puncture resistance
- Good resistance to weathering effects
- Total solid composition, without VOC

CERTIFICATES AND TEST REPORTS

- Provided with CE-marking, according to EN1504-2

PRODUCT INFORMATION

| | | |
|-------------|----------------------------------|--------|
| Composition | Two part aliphatic polyurea | |
| Packaging | Part A (resin) | 205 kg |
| | Part B (Isocyanate) | 225 kg |
| Colour | Various RAL colors upon request. | |

| | | | |
|-----------------------|---|-------------------|-----------------|
| Shelf life | Part A (resin) | 12 months | |
| | Part B (Isocyanate) | 12 months | |
| Storage conditions | The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Higher storage temperatures may reduce shelf life of product. | | |
| Density | Part A | approx. 1.15 kg/l | (EN ISO 2811-1) |
| | Part B | approx. 1.15 kg/l | |
| | Density values determined at +25°C. | | |
| Viscosity | Part A | 1700 - 2400 mPas | (EN ISO 3219) |
| | Part B | 2700 - 3700 mPas | |
| Solid content by mass | 100% | | |

TECHNICAL INFORMATION

| | | |
|------------------------------|-------------------------|----------------------------|
| Shore D Hardness | 50 | |
| Abrasion resistance | <100 mg | |
| Tensile strength | ~ 17.0 N/mm² | |
| Tensile strain at break | 60 - 80 % | |
| Tear strength | ~ 90.0 kN/m | |
| Chemical resistance | Ozone resistance | No crack at 7 enlargements |
| Permeability to water vapour | μ: ~ 2942 | |
| Service temperature | -20°C min. / +90°C max. | |

APPLICATION INFORMATION

| | | | |
|-----------------------------|---|---------|---------|
| Ambient air temperature | +5°C min. / +40°C max | | |
| Relative air humidity | 85 % r.h. max. | | |
| Dew point | Beware of condensation! The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation on the surface. | | |
| Substrate moisture content | <p>The product can be applied on substrates with a moisture content of ≤ 4 % part by weight. The substrate must be visibly dry with no standing water. The following test methods can be used to determine the substrate moisture content:</p> <ul style="list-style-type: none"> ▪ Sika®-Tramex meter ▪ CM-measurement ▪ Oven-dry-method <p>No rising moisture according to ASTM (Polyethylene-sheet). For high moisture content substrates apply Sikafloor EpoCem® as a Temporary Moisture Barrier (TMB) system.</p> | | |
| Waiting time to overcoating | Before applying Sikalastic®-831 R UV on Sika® Concrete Primer, allow: | | |
| | Substrate temperature | Minimum | Maximum |
| | +10°C | 2 h | 4 h |
| | +23°C | 1 h | 4 h |
| | +30°C | 1 h | 4 h |
| | Before applying Sikalastic®-831 R UV on lightly broadcasted epoxy primers (SikaFloor® 151), allow: | | |

| Substrate temperature | Minimum | Maximum |
|-----------------------|---------|---------|
| +10°C | 24 h | 36 h |
| +23°C | 12 h | 36 h |
| +30°C | 8 h | 36 h |

Before applying Sikalastic®-831 R UV on Sikalastic®-831 R UV, allow:

| Substrate temperature | Minimum | Maximum |
|-----------------------|---------|---------|
| +10°C | 15 s | 6 h |
| +23°C | 15 s | 5 h |
| +30°C | 15 s | 4 h |

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

Applied product ready for use

| Gel time | Foot traffic | Light traffic | Curing time |
|----------|--------------|---------------|-------------|
| ~5 sec. | ~15 min. | ~8 h | ~24 h |

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

SYSTEM INFORMATION

System structure

Exposed Roof Waterproofing Sikalastic®-831 R UV is applied in one coat.

| Layer | Product | Consumption |
|------------------|---|-----------------------------------|
| 1. Primer | please refer to substrate pre-treatment | please refer to PDS of the primer |
| 2. Waterproofing | Sikalastic® 831 R UV | ≥ 1,8 kg/m ² |

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

Sika Method Statement: Sikalastic®-831 R UV

IMPORTANT CONSIDERATIONS

- This product may only be used by experienced professionals.
- For spray application the use of protective health & safety equipment is mandatory! See the relative Safety Data Sheet to obtain more detailed information.
- Application by using plural component, heated, high pressure, proportioning spray equipment.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Product must only be applied in accordance with their intended use.
- Do not apply on substrates with rising moisture or are unstable.
- Do not apply Sikalastic®-831 R UV directly on FPO and plastified PVC.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising vapour. Sikalastic® range of primers may assist with reducing or eliminating this effect.
- The reported data refer to the product applied in the laboratory and conditioned at an ambient temperature of 23°C with an average RH of 50% for 28 days.

- Volatile bituminous materials may stain the coating. The use of proper primer avoids this phenomenon.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

REGULATION (EC) NO 1907/2006 - REACH

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.

APPLICATION INSTRUCTIONS

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman

Sika MB LLC
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
Sika MB LLC
Sika International Chemicals LLC
Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

Sikalastic®-831 R UV

May 2025, Version 01.01

020915601000000026