BUILDING TRUST

PRODUCT DATA SHEET

# Sikalastic®-633 R VN

Polyurethane 1-part rapid cure liquid applied membrane for roof waterproofing

## DESCRIPTION

Sikalastic®-633 R VN is a polyurethane, 1-part, rapid cure, cold-applied, moisture cured, crack bridging, liquid applied membrane. Provides a seamless, chemical resistant, durable waterproofing solution for flat or sloping roofs, external balcony and terrace decks.

## USES

Sikalastic®-633 R VN may only be used by experienced professionals.
Waterproofing for both new construction and refurbishment of:

- Flat and sloping roof structures
- External balcony and terrace decks
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry
- Failing roofs to extend service life

## CHARACTERISTICS / ADVANTAGES

- Improved mechanical properties
- Rapid curing
- 1-part, cold applied
- Resistant to chemical exposure
- No mixing, ready to use
- Seamless & Fully adhered
- Moisture triggered chemistry (MTC)
- Moves with normal thermal movement
- Reinforced system provides waterproofing complex detailing of roof or deck penetrations
- Rain resistant almost immediately on application
- Vapor permeable, allows substrate to breath

## APPROVALS / STANDARDS

- Local test results - KT3-01587BXD3/R

## PRODUCT INFORMATION

| | |
|---|---|
| **Chemical base** | Aromatic polyurethane |
| **Packaging** | 23 kg container |
| **Colour** | White, Light grey, Green |
| **Shelf life** | 6 months from date of production |
| **Storage conditions** | Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +10 °C and +30 °C. Please always refer to packaging. |
| **Density** | 1.43 kg/l ± 0.1 value at +20°C |
| **Solid content by weight** | 93% ± 3 |

## TECHNICAL INFORMATION

| | | |
|---|---|---|
| **Shore A Hardness** | 45 at 14days | (ASTM D2240-15) |
| **Tensile Strength** | ≥ 3.0 MPa at 14days | (ASTM D412-16) |

| | | |
|---|---|---|
| **Elongation at Break** | ≥ 500 % at 14days | (ASTM D412-16) |
| **Tensile Adhesion Strength** | ≥ 1 N/mm2 at 14days | (ASTM D7234-21) |
| **Crack Bridging Ability** | up to 3mm | (BS EN 14891 : 2017) |

## APPLICATION INFORMATION

| | |
|---|---|
| **Ambient Air Temperature** | +5 °C min. / +35 °C max |
| **Relative Air Humidity** | 5 % min / 85 % max |
| **Dew Point** | Be aware of condensation.<br>The substrate and uncured applied membrane must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the membrane finish |
| **Substrate Temperature** | +5 °C min. / +60 °C max |
| **Substrate Moisture Content** | Refer to Product Data Sheet of the appropriate primer. |
| **Pot Life** | Product will cure rapidly in high temperatures combined with high air humidity. Skin formation starts after ~1 hour (+20 °C / 50 % r.h.). |
| **Waiting Time / Overcoating** | See table below |

| Ambient temperature | Relative humidity | Minimum |
|---|---|---|
| +10 °C | 50% | ~12 hours |
| +20 °C | 50% | ~6 hours |
| +30 °C | 50% | ~4 hours |

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. If the overcoating time exceeds 2 days, the surface must be cleaned and primed with Sika® Reactivation Primer or or Methyl Ethyl Ketone (MEK) before continuing. Refer to the Method Statement of the product before application.

## SYSTEM INFORMATION

**System Structure**

Sikalastic®-633 R VN is part of the following roof waterproofing systems.

| System | 1st base coat | 2nd base coat |
|---|---|---|
| SikaRoof® MTC-05 UV AP | ≥ 1,00 kg/m² | ≥ 0.75 kg/m² |
| SikaRoof® MTC-08 UV AP | ≥ 1,00 kg/m² | ≥ 1,00 kg/m² |
| SikaRoof® MTC-10 UV AP | ≥ 1,40 kg/m² | ≥ 1,00 kg/m² |

## BASIS OF PRODUCT DATA

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.

## FURTHER DOCUMENTS

## IMPORTANT CONSIDERATION

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- Do not apply on substrates with rising moisture.
- Not suitable for permanent water immersion.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur due to rising vapor. Sika primers may help reduce or or eliminating this effect.
- Do not dilute the system products with any diluents.
- Turn off the air intake vent of a running air conditioning unit when installing the system.
- Do not apply Sikalastic®-633 R VN directly onto insulation boards, unless using Sikalastic® Carrier between Insulation board and roof system.
- Do not apply over volatile bituminous materials as it may stain / soften below the roof system.
- Areas with high movement, irregular substrates, or timber-based roof decks require a complete layer of Sikalastic® Carrier applied before application of roof membrane system.
- Do not use different basecoats on the same jobsite.

Always work with the same product.
- When applied indoors, ensure the application area is well-ventilated.
- Do not use grit salt and/or other de-icing agents between coats of Sikalastic®-633 R VN as this may affect the cure and inter-coat adhesion of the product.
- Sikalastic®-633 R VN is resistant to most commonly encountered atmospheric pollutants, proprietary cleaning solutions, and environmental conditions within the service temperature limits. For applications requiring increased chemical resistance, the suitability of the product must first be established.
- When product is exposed to direct sunlight, it may experience some color fading and variation. This chalking can lead to performance deterioration over time. To maintain long-term performance, it is recommended to apply one layer of Sikalastic® U-Coating for UV resistance.
- Incompatible with some silicones products.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Suitable substrates: Cementitious, brick, stone, aged bituminous coatings and felts, metals*, asbestos cement, ceramic tiles (unglazed), wood.
*Ferrous or galvanized metals, lead, copper, aluminum, brass or stainless steel, factory coated metal.
Reference must be made to the Sika® Method Statement: Sikalastic®-633 R VN

### MIXING

Uniformly stir with a power mixer for about 3~5 minutes before use (Use an electric mixer from 1000RPM, 500W)

### APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
Reference must be made to the Sika® Method Statement: Sikalastic®-633 R VN for full application details.

### CLEANING OF TOOLS

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

Sika Limited (Vietnam)
Nhon Trach 1 Industrial Zone
Nhon Trach Dist., Dong Nai Province
Vietnam
Tel: (84-251) 3560 700
Fax: (84-251) 3560 699
sikavietnam@vn.sika.com