

Sikalastic®-827 LT

Modified hotmelt pellets

Construction

Product Description

Sikalastic®-827 LT is a modified hot-melt adhesive used as part of the bridge deck waterproofing system underneath hot-rolled asphalt .

Uses

- As pellets broadcast into wet Sikafloor®-161 to allow a bond between the liquid applied membrane and hot-rolled asphalt.

Characteristics / Advantages

- Allows bonding between waterproofing membrane, e.g. Sikalastic®-841 ST and hot rolled asphalt
- Easy application
- Applied as pellets by hand or machine
- Excellent bond strength
- Provides excellent adhesion to hot-rolled asphalt

Tests

Product Data

Form

Appearance / Colours Yellowish pellets, particle size approximately 2 mm

Packaging 25 kg bags or 750 kg boxes

Storage

Storage Conditions / Shelf Life 12 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 Modified polyethylene copolymer

Density ~ 1.25 kg/litre (DIN EN ISO 2811-1)
Density value at + 23°C

Solid Content > 99%

Chemical Resistance Sikalastic-827 LT is resistant to water, bitumen and de-icing salts



System Information

System Structure

System for concrete bridge decks with hot rolled asphalt

Primer: 1-2 x Sikafloor®-161
 Waterproofing: 1 x Sikalastic®-841 ST
 Tack-coat: 1 x Sikafloor®-161 + Sikalastic®-827 LT
 Asphalt: Hot rolled asphalt min. 140°C (substrate temperature min. 20°C)

System for concrete bridge decks with hot rolled asphalt

Primer: 1-2 x Sika® Concrete Primer
 Waterproofing: 1 x Sikalastic®-841 ST
 Tack-coat: 1 x Sikafloor®-161 + Sikalastic®-827 LT
 Asphalt: Hot rolled asphalt min. 140°C (substrate temperature min. 20°C)

The system specification as described above must not be changed.

Application Details

Consumption / Dosage

Coating System	Product	Consumption
Priming	1-2 x Sikafloor®-161, Lightly broadcast with quartz sand, 0.3 - 0.8 mm	0.3 - 0.5 kg/m ² /layer 1.0 - 1.5 kg/m ²
Waterproofing	1x Sikalastic®-841 ST	~ 1.07 kg/m ² /mm
Tack-coat (in case of hot rolled asphalt)	1x Sikafloor®-161 broadcast with Sikalastic®-827 LT	0.40 - 0.50 kg/m ² 0.50-0.60 kg/m ²

Coating System	Product	Consumption
Priming	1-2 x Sika® Concrete Primer, Lightly broadcast with quartz sand, 0.3 - 0.8 mm	0.3 - 0.5 kg/m ² /layer 0.5 - 1.0 kg/m ²
Waterproofing	1x Sikalastic®-841 ST	~ 1.07 kg/m ² /mm
Tack-coat (in case of hot rolled asphalt)	1x Sikafloor®-161 broadcast with Sikalastic®-827 LT	0.40 - 0.50 kg/m ² 0.50-0.60 kg/m ²

These figures are theoretical and do not allow any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

Application Conditions / Limits

Substrate Temperature +5°C min. / +35°C max.

Air Temperature +5°C min. / +35°C max.

Relative Air Humidity 85% RH max.

Application Instructions

**Application Method /
Tools**

Tack coat:
Uniformly broadcast 1x Sikalastic®-827 LT by hand into the still wet primer Sikafloor®-161.

**Waiting Time /
Overcoatability**

Before applying asphalt on Sikafloor®-161+ Sikalastic®-827 LT allow:

Substrate Temperature	minimum	maximum
+ 10°C	~ 24 hours	1 month ¹⁾
+ 20°C	~ 12 hours	
+ 30°C	~ 8 hours	
+ 40°C	~ 6 hours	

¹⁾ Assuming that dirt has been carefully removed and contamination is avoided.

Times are approximate and will be affected by changing ambient conditions.

**Notes on Application /
Limits**

Prior to placing the hot rolled asphalt, the Sikalastic®-827 LT pellets have to be broadcast uniformly into the still wet Sikafloor®-161 primer.

Minimum temperature during broadcasting +5°C.

Maximum temperature during broadcasting +35°C.

Always consider the potlife of Sikafloor®-161, especially at temperatures $\geq 30^{\circ}\text{C}$.
(for more detailed information consult the product datasheet)

Please note:

In order to guarantee an optimal bonding between waterproofing membrane and hot-rolled asphalt, the temperature of the asphalt during rolling should be $\geq 140^{\circ}\text{C}$, considering a substrate temperature $\geq 20^{\circ}\text{C}$.

Substrate temperature shall not exceed 40°C during placement of first layer of asphalt.

All systems with an additional asphalt layer (= local specification of asphalt) has to be approved, regarding the properties of adhesion and shear-strength in accordance with local specifications.

For this purpose strictly a reference area has to be carried out, which has to be approved by the awarding authority. Sika excludes any responsibility for all following asphalt layers.

**Health and Safety
Information****Protective Measures****Important Notes**

Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

All technical data stated in this Product Data Sheet are based on laboratory-tests. Actual data may vary due to changing conditions beyond our control.

Construction

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 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 and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



Sika Services AG
Tüffenwies 16
CH-8048 Zurich
Switzerland

Phone +41 1 436 40 40
Telefax +41 1 436 46 86
www.sika-construction.com

