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TECHNICAL DATA SHEET

# Sikalastic® M 270 NP

Manufacturer: Sika Canada Inc.

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## PRODUCT DATA SHEET

# Sikalastic® M 270 NP

(formerly MSeal M 270NP or MSeal M 265)

Polyurethane base coat for Sikalastic® Traffic 2500, 2575 and 2850 deck coating systems

### PRODUCT DESCRIPTION

Sikalastic® M 270 NP is a two-component polyurethane base coat for use in Sikalastic® Traffic 2500, 2530, 2575 and 2850 deck coating systems.

Sikalastic® M 270 NP is a fast-curing base coat with outstanding mechanical properties, including excellent elongation without the use of primer.

### WHERE TO USE

- Stadiums
- Balconies
- Parking garages
- Commercial construction
- Building and restoration
- Plywood decks/balconies
- Plaza decks

### CHARACTERISTICS / ADVANTAGES

- Base coat providing a simpler application process and material and labour cost savings
- Two-component material offering faster setting times, even in cooler climates
- Seamless waterproof membrane helps protect concrete from freeze/thaw damage
- Can be used with or without a primer

### ENVIRONMENTAL INFORMATION

Contact Sika Canada for information.

### PRODUCT INFORMATION

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| Composition / Manufacturing | Fast-curing polyurethane                                        |
| Packaging                   | 17.64 L (4.66 US gal) pail                                      |
| Colour                      | Clear/Amber                                                     |
| Shelf Life                  | 1 year (when properly stored)                                   |
| Storage Conditions          | Store in unopened containers in a cool, clean, dry area         |
| Viscosity                   | 3400 cps*<br><i>*Cold temperatures will increase viscosity.</i> |

Solid content by volume 99 %

CSC MasterFormat® 07 18 00 TRAFFIC COATINGS

## TECHNICAL INFORMATION

|                                  |                     |              |
|----------------------------------|---------------------|--------------|
| Shore A Hardness                 | 67                  | (ASTM D2240) |
| Tensile Strength                 | 20.7 MPa (3000 psi) | (ASTM D412)  |
| Modulus of Elasticity in Tension | 950 %               | (ASTM D412)  |

## APPLICATION INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yield                      | Approx. 1.35–1.47 m <sup>2</sup> /L (55–60 ft <sup>2</sup> /US gal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Layer Thickness            | 25 mil w.f.t (0.64 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ambient Air Temperature    | Between 4 °C and 32 °C (40 °F and 90 °F).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dew Point                  | Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Substrate Temperature      | Between 4 °C and 32 °C (40 °F and 90 °F).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Substrate Moisture Content | Moisture content of concrete substrate must be ≤ 4 % by mass (part by weight) as measured with a Tramex® CME / CMExpert type concrete moisture meter on mechanically-prepared surface according to this product data sheet. Do not apply to concrete substrate with moisture levels exceeding 4 % mass (part by weight) as measured with Tramex® CME / CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 4 % by mass (part by weight) as measured with Tramex® CME / CMExpert type concrete moisture meter, contact Sika Canada Inc. |
| Open Time                  | 20 minutes ± 5 ( at 21 °C (70 °F) and 50 % R.H)<br>Once the material has been mixed, the coating must be poured onto the surface and applied immediately.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Curing Time                | 3–4 hours*<br><i>*When tested at 73 °F (23 °C) and 50 % relative humidity.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## SYSTEMS

|               |                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------|
| Compatibility | Sikalastic® Vehicular 2500<br>Sikalastic® Vehicular 2530<br>Sikalastic® Vehicular 2575<br>Sikalastic® Vehicular 2850 |
|---------------|----------------------------------------------------------------------------------------------------------------------|

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## LIMITATIONS

Sikalastic® M 270 NP is designed for professional use only; not for sale to or use by the general public.

Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

- Thickness and re-coat window are critical; system will not work if installed differently.

- Substrate must be dry prior to application. Do not apply to frosted, wet, damp or contaminated surfaces. Allow sufficient time for substrate to dry to avoid potential for bonding problems.
- Avoid application when inclement weather is present or imminent.
- Protect from dampness, condensation and water contact during the initial 24 hours cure period.
- Do not store materials outdoors or exposed to sunlight for prolonged periods.
- Do not thin with the material with solvents
- Do not hand-mix Sikalastic® materials, mechanical mixing only.
- Ensure proper ventilation.
- Direct-fired gas or kerosene heaters increase the carbon dioxide content in the air and also produce significant amounts of water vapour. Properly exhaust heaters to the exterior of the building to prevent damage to the work (such as but not limited to amine blush, whitening, debonding, etc.).
- Do not apply to concrete slabs on grade, unvented metal pan decks or split slab applications with a waterproofing membrane between slabs.
- Do not use self-levelling grade product on slopes greater than 15 %. On steep ramps in excess of 15 %, contact your local Sika representative.
- Do not coat expansion joints over 25 mm (1 in) wide.
- Not suitable for use where chained or metal-studded tires will be used.

## ENVIRONMENT, HEALTH & 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

Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D4263). All concrete surfaces (new and old) must be shot blasted to remove previous coatings, laitance and all miscellaneous surface contamination and to provide profile for proper adhesion. Abrasive shot blasting must occur after concrete repair has taken place. Acid-etching is not permitted. Proper surface profile should be a minimum of ICRI CSP-3 (as prescribed in ICRI document 03732.)

#### Sika Canada Inc.

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#### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) and at least 1.5 MPa (218 psi) in tension at the time of application. Consult Sikalastic® Deck Coating Solutions for detailed surface preparation.

### MIXING

Precondition A and B components to a temperature of approximately 21 °C (70 °F). Add entire contents of Part A into Part B. Mix both components with a slow-speed drill (400–600 rpm), for a minimum of three (3) minutes. Scrape down sides and bottom of mixing vessel, then mix again for two (2) additional minutes. Keep the mixing paddle submerged in material during mixing to avoid air entrapment into the mixture.

### APPLICATION

Apply Sikalastic® M 270 NP at 25 mil w.f.t (0.64 mm) using a properly notched squeegee at the rate of approximately 1.35–1.47 m<sup>2</sup>/L (55–60 ft<sup>2</sup>/US gal) and immediately back roll the surface. Sikalastic® M 270 NP is applied without primer but also can be used with primer applications per system application instructions. Refer to the applicable Sikalastic® Deck Coatings system data sheet for total system and aggregate surface preparation and application.

### CLEAN UP

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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#### Product Data Sheet

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