

## SYSTEM DATA SHEET

# Sikafloor® MultiDur MS

EPOXY TROWELED METALLIC MORTAR ENGINEERED WITH SIKAFLOOR® - 160  
AT 3/16" - 3/8" (4.7 - 9.5 MM)

## PRODUCT DESCRIPTION

Sikafloor® MultiDur MS is a unique, high abrasion and wear resistant, troweled mortar using an epoxy binder impregnated with metallic aggregate. The finished system has superior resistance to impact, wear, and abrasion with increased chemical resistance available in several optional top coats. Sikafloor® MultiDur MS typically installed at 3/16" - 3/8" (4.7 - 9.5 mm).

## USES

Sikafloor® MultiDur MS may only be used by experienced professionals.

- Heavy Industrial Traffic and Vehicles
- Restores Damaged Concrete Slabs
- Chemical Processing Zones
- Volatile Storage Areas
- Protects New Concrete Surfaces

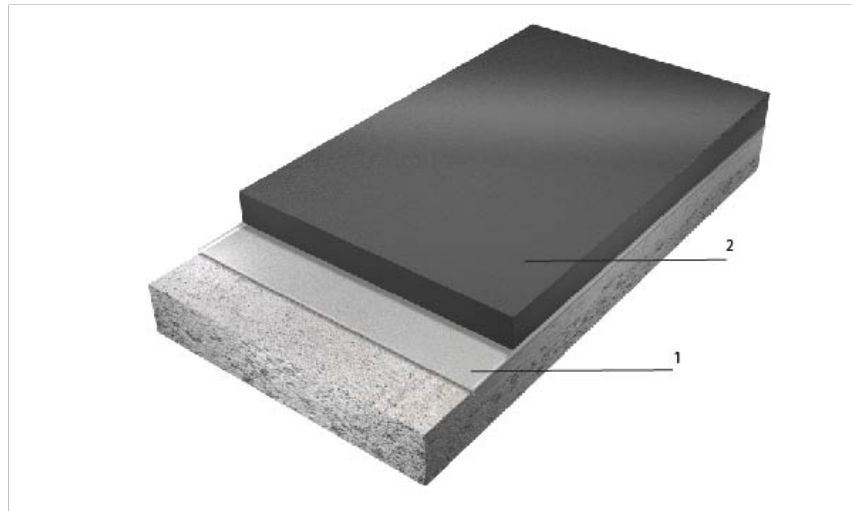
## CHARACTERISTICS / ADVANTAGES

- High solids/Low odor
- Good abrasion resistance
- Good impact resistance
- Product may be trowel applied as supplied

# SYSTEM INFORMATION

## System Structure

Sikafloor® MultiDur MS ~ 3/16" - 3/8" (4.7 - 9.5 mm)



| Description    | Products                                  | Thickness<br>mils/inch |
|----------------|---|------------------------|
| 1. Primer      | Sikafloor®-160                            | 8 - 10                 |
| 2. Mortar      | Sikafloor®-160<br>+<br>Metallic Aggregate | 3/16" -<br>3/8"        |
| <b>Options</b> |   |                        |
| Primers        | Sikafloor®-1610                           | 8 - 10                 |
|                | Sikafloor®-165 FS                         | 8 - 10                 |
| Grout Coat     | Sikafloor®-264 Thixo*                     | 8 - 10                 |
|                | Sikafloor®-264                            | 8 - 10                 |
|                | Sikafloor®-316 N**                        |                        |
|                | +   | 4 - 6                  |
| Top Coats      | Sikafloor®-SCO Color Add                  |                        |
|                | Sikafloor®-340**                          |                        |
|                | +   | 4 - 6                  |
|                | Sikafloor®-Urethane Color Add             |                        |

\*Sikafloor®-264 and Sikafloor®-264 Thixo would be optional top coat for smooth and textured finish.

\*\*Sikafloor-340 and Sikafloor-316 N would be an optional topcoat on top of grout coat Sikafloor®-264 for increased chemical and abrasion resistance.

|              |   |
|--------------|---|
| <b>Color</b> | Available in broad range of standard and custom colors. Please refer to Standard Color selection Guide and Contact Customer Service for custom colors availability. |
|--------------|---|

|                          |                             |
|--------------------------|-----------------------------|
| <b>Nominal thickness</b> | 3/16" - 3/8" (4.7 - 9.5 mm) |
|--------------------------|-----------------------------|

|                          |                |
|--------------------------|----------------|
| <b>Minimum thickness</b> | 3/16" (9.5 mm) |
|--------------------------|----------------|

|  |  |
|--|--|
| <b>Volatile organic compound (VOC) content</b> | Please refer to the individual Product Data Sheets |
|--|--|

## TECHNICAL INFORMATION

|                             |  |   |
|-----------------------------|--|---|
| Water Absorption            | 0.55%  | ASTM C413<br>at 73°F (23°C) and 50% R.H   |
| Shore D Hardness            | 85   | ASTM D2240<br>at 73°F (23°C) and 50% R.H  |
| Abrasion Resistance         | CS-17/1000 cycles/1000g ~ 85 mg loss         | ASTM D-4060<br>at 73°F (23°C) and 50% R.H |
| Impact Strength             | >160 In.lbs                                  | ASTM D2794<br>at 73°F (23°C) and 50% R.H  |
| Indentation                 | 0.23 %                                       | MIL-PRF-24613                             |
| Compressive Strength        | 11,300 Psi (78 MPa)<br>28 days               | ASTM C579<br>at 73°F (23°C) and 50% R.H   |
| Tensile Strength            | 1,400 psi (9.6 MPa)                          | ASTM C307<br>at 73°F (23°C) and 50% R.H   |
| Flexural Strength           | 5,795 psi (39.95 MPa)                        | ASTM C307<br>at 73°F (23°C) and 50        |
| Tensile Adhesion Strength   | > 400 psi (2.7 MPa)<br>(concrete failure)    | ASTM 4541<br>at 73°F (23°C) and 50% R.H   |
| Resistance to Thermal Shock | Pass   | ASTM C884<br>at 73°F (23°C) and 50% R.H   |
| Chemical Resistance         | Please consult Sikafloor Technical Services. |   |
| Coefficient of Friction     | 0.5  | ANSI 326.3<br>at 73°F (23°C) and 50 % R.H |

## APPLICATION INFORMATION

| Coverage                | Description                         | Products                                  | Approximates<br>Sq.Ft./kit                |
|-------------------------|-------------------------------------|---|---|
| 1. Primer               |                                     | Sikafloor®-160                            | 3,000@8mils                               |
| 2. Mortar               |                                     | Sikafloor®-160<br>+<br>Metallic Aggregate | 560@3/16"<br>10 bags per<br>15 gallon kit |
| <b>Options</b>          |                                     |   |   |
| Primers                 |                                     | Sikafloor®-1610                           | 900@8mils                                 |
|                         |                                     | Sikafloor®-165 FS                         | 1,000@8mils                               |
| Grout Coat              |                                     | Sikafloor®-264Thixo                       | 900@8mils                                 |
|                         |                                     | Sikafloor®-264                            | 900@8mils                                 |
|                         |                                     | Sikafloor®-316 N                          | 2,400@4mils                               |
|                         |                                     | +   | 2 quarts per                              |
| Top Coats               |                                     | Sikafloor®-SCO Color Add                  | 5.5 gallon kit                            |
|                         |                                     | Sikafloor®-340                            | 2,200@4mils                               |
|                         |                                     | +   | 2 quarts per                              |
|                         |                                     | Sikafloor®-Urethane Color Add             | 5 gallon kit                              |
| Ambient Air Temperature | Minimum/Maximum 50/85 °F (10/30 °C) |   |   |
| Substrate Temperature   | Minimum/Maximum 50/85 °F (10/30 °C) |   |   |

## PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Packaging</b>          | Please refer to the individual Product Data Sheets |
| <b>Shelf Life</b>         | Please refer to the individual Product Data Sheets |
| <b>Storage Conditions</b> | Please refer to the individual Product Data Sheets |

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

Please refer to the individual Product Data Sheets

## MIXING

Please refer to the individual Product Data Sheets

## APPLICATION

Please refer to the individual Product Data Sheets

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets before using any products. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## SUBSTRATE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI - CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

## Primer

Priming for concrete substrate is required. Prime with either Sikafloor-161, Sikafloor-1620 or Sikafloor-165 FS. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats.

Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Please refer to the most current and respective Product Data Sheet for further information.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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