



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

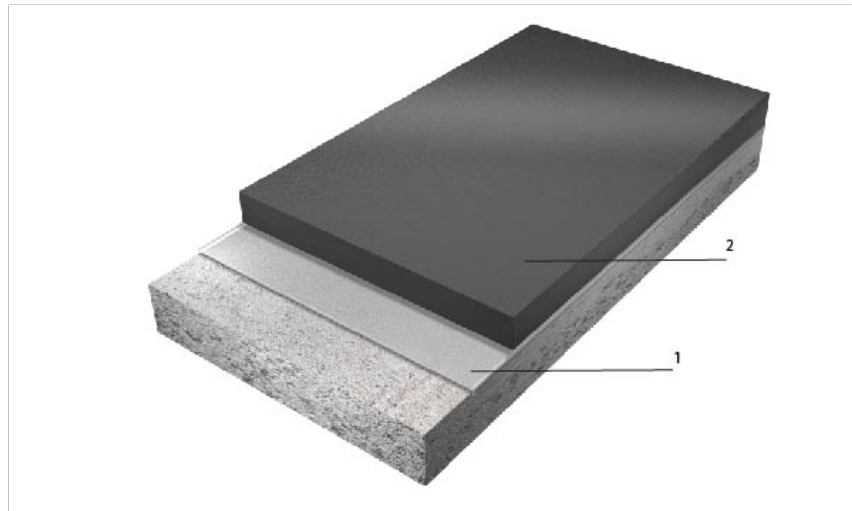
CHARACTERISTICS / ADVANTAGES

- 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 mils/inch
1. Primer	Sikafloor®-160	8 - 10
2. Mortar	Sikafloor®-160 + Sikadur®-511 Metallic Aggregate	3/16" - 3/8"

Options		
Description	Products	Thickness mils/inch
Primers	Sikafloor®-1620	12 - 15
	Sikafloor®-165 FS	8 - 10
Grout Coat	Sikafloor®-264 Thixo*	8 - 10
Top Coats	Sikafloor®-264*	8 - 10
	Sikafloor®-315** + Sikafloor® Urethane Pigment Pack	3 - 4
	Sikafloor®-340** + Sikafloor® Urethane Pigment Pack	4 - 6

*Sikafloor®-264 and Sikafloor®-264 Thixo would be optional top coats for a smooth and textured finish

**Sikafloor®-315 and Sikafloor®-340 would be optional top coats on top of grout coat Sikafloor®-264 for increased chemical and abrasion resistance

Color

Available in a broad range of standard and custom colors. Please refer to the Standard Color selection Guide and contact Customer Service for custom color availability.

Nominal thickness

3/16" - 3/8" (4.7 - 9.5 mm)

Minimum thickness 3/16" (4.7 mm)

TECHNICAL INFORMATION

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

APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
	1. Primer	Sikafloor®-160	3,000@8 mils
	2. Mortar	Sikafloor®-160 + Sikadur®-511 Metallic Aggregate	560@3/16" 10 bags per 15 gallon kit
	Options		
	Description	Products	Approximates Sq.Ft./kit
	Primers	Sikafloor®-1620	533@12 mils
		Sikafloor®-165 FS	1,000@8 mils
	Grout Coat	Sikafloor®-264 Thixo	900@8 mils
	Top Coats	Sikafloor®-264	900@8 mils
		Sikafloor®-315 + Sikafloor® Urethane Pigment Pack	2,340@4 mils 2 quarts per 5.34 gallon kit
		Sikafloor®-340 + Sikafloor® Urethane Pigment Pack	2,200@4 mils 2 quarts per 5 gallon kit
Ambient Air Temperature	Minimum/Maximum 50/85 °F (10/30 °C)		
Substrate Temperature	Minimum/Maximum 50/85 °F (10/30 °C)		

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

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

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®-160, 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.

MIXING

Please refer to the individual Product Data Sheets

APPLICATION

Please refer to the individual Product Data Sheets

OTHER RESTRICTIONS

See Legal Disclaimer.

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 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.**

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