



FLEXOLITH SUMMER GRADE

LOW MODULUS EPOXY COATING AND BROADCAST OVERLAY FOR WARMER TEMPERATURES

PACKAGING

100 gal (378.5 L) unit
Code: TD43341100NC

10 gal (38 L) unit (MTO)
Code: TD4334110NC

4 gal (15 L) unit (MTO)
Code: TD4334104NC

CLEAN UP

Clean tools and application equipment immediately with acetone, xylene, or MEK. Clean spills or drips with the same solvents while still wet. Hardened FLEXOLITH SG will require mechanical abrasion for removal.

SHELF LIFE

2 years in original, properly stored, unopened package

SPECIFICATIONS/COMPLIANCES

- ASTM C881, Type III, Grade 1 Classes B and C
- AASHTO M 235, Type III, Grade 1

DESCRIPTION

FLEXOLITH SG is a two-component, 100% solids, low modulus, moisture insensitive epoxy binder with properties which makes it suitable for use in applications where stress relief and resistance to mechanical and thermal movements are required. FLEXOLITH SG is designed for use as a binder for overlays or non-skid surfaces and is formulated for higher temperature applications, or where a longer working time is required.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Ample working time in warmer climates
- Easy to use
- Can be used as a mortar or broadcast system

PRIMARY APPLICATIONS

- Parking decks
- Bridges
- Factories
- Warehouses
- Loading docks
- Nosing repair applications

COVERAGE

Aggregate Broadcast Coating	1 st Coat	2 nd Coat	Seal Coat
Flexolith SG (ft ² /gal (m ² /L))	40 to 50 (0.98 to 1.2)	30 to 40 (0.74 to 0.98)	100 to 120 (2.5 to 2.9)
Broadcast Aggregate (lbs/ft ² (kg/m ²))	1.2 to 1.5 (5.9 to 7.3)	1.5 to 2.0 (7.3 to 9.8)	-----
1/4" Skid-Resistant Overlay	1 st Coat	2 nd Coat	3 rd Coat: HD 3/8" (9.5 mm)
Flexolith SG (ft ² /gal (m ² /L))	40 to 45 (0.98 to 1.1)	22 to 25 (0.54 to 0.61)	22 to 25 (0.54 to 0.61)
Flint/Basalt Aggregate (lbs/ft ² (kg/m ²))	1.0 to 1.5 (4.9 to 7.3)	1.5 to 2.0 (7.3 to 9.8)	1.5 to 2.0 (7.3 to 9.8)
Trowel Down Coating	1 st Coat	2 nd Coat	Seal Coat (optional)
Flexolith SG (ft ² /gal (m ² /L))	200 (4.9)	-----	150 to 250 (3.7 to 6.1)
Flexolith SG Mortar* at 1/4" (6.4 mm)	-----	16 to 20 ft ² (1.5 to 1.9 m ²)	-----
*Flexolith SG mortar consists of 1 gal (3.8 L) of mixed Flexolith SG combined with 2 to 3 gal (7.6 to 11.4 L) 20/40 mesh, clean, dry silica sand			

Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C882	Bond Strength	2 Days 2,100 psi (14.5 MPa) 7 Days 2,400 psi (16.5 MPa)
ASTM C1202 AASHTO T77	Chloride Permeability	<100 coulombs
N/A	Compressive Modulus	120,000 psi (827 MPa)
ASTM C109	Compressive Strength Mortar : 3 parts sand	4 Hours 1,400 psi (9.6 MPa) 24 Hours 7,040 psi (48.5 MPa)
ASTM D695	Compressive Strength, Final	5,800 psi (40 MPa)
ASTM C883	Effective Shrinkage	Passes
ASTM C881	Gel Time, Class B	45 minutes
ASTM D2240	Hardness Shore D	65
ASTM C882	Mix Ratio By Volume (part A : B)	1:1
ASTM D638	Tensile Elongation	30 to 60%
ASTM D638	Tensile Strength, Final	> 3,200 psi (22.1 MPa)
ASTM C884	Thermal Compatability	Passes
ASTM D2556	Viscosity (mixed) Brookfield Viscometer, Model RVT	1,700 cps
ASTM D570	Water Absorption, 24 hour	< 0.5%

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DIRECTIONS FOR USE

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. New concrete and masonry must be at least 28 days old. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralize the substrate. The Concrete Surface Profile (CSP) should be equal to CSP 4-6 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM C1583, and the tensile pull-off strength should be at least 250 psi (1.7 MPa). Do not apply epoxy or urethane coatings if there is excessive moisture in the concrete or if the moisture vapor emission rate (MVER) is high. Before application of the coating, perform the "Visqueen test" (ASTM D4263, modified to 2 hours). Do not apply coatings when test indicates presence of moisture. After surface preparation, a test section application of the coating system is recommended to confirm good adhesion and compatibility of the coating with the surface, and also to confirm appearance and aesthetics. When coating steel, all contamination should be removed and the steel surface prepared to a "near white" finish (SSPC SP10) using clean, dry blasting media.

Mixing: Mix FLEXOLITH SG using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 1 minute each. Combine Part A and Part B in a 1:1 ratio by volume, then mix thoroughly for 3 minutes.

To make FLEXOLITH SG mortar, gradually add clean, dry aggregate to previously mixed FLEXOLITH SG epoxy and mix thoroughly for 3 minutes. Aggregate types and quantities for mixing are listed in the "Coverage" section above. A low-speed drill and a mixing paddle may be used for small quantities, and a horizontal shaft mortar mixer may be used for large quantities.

Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing. To keep aeration to a minimum, the recommended mixing paddles are #P1 or #P2 as found in ICRI Guideline 320.5R-2014.

Application: See the "Epoxy & Urethane Coatings Application Guide" for installation means and methods. Note that any coverage rates or mixing ratios for epoxy or epoxy-aggregate combinations found in the "Epoxy & Urethane Coatings Application Guide" are approximations, and are for general reference only. For product-specific coverage rates and mixing ratios, refer to this technical data sheet. The recommended aggregate for heavy duty applications/skid-resistant overlays (high traffic bridge decks, parking deck turn lanes, etc.) is #8 or #4 basalt, #8 or #4 flint rock, or another similarly graded non-slip aggregate, containing at least 10% aluminum oxide for resistance to polishing. For other applications, or where specified, silica sand aggregate may be used.

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PRECAUTIONS/LIMITATIONS

- Store FLEXOLITH SG indoors, protected from moisture, at temperatures between 40 °F and 90 °F (4 °C and 32 °C)
- Surface and ambient temperature during coating applications should be between 40 °F and 90 °F (4 °C and 32 °C)
- Material temperatures should be at least 40 °F (4 °C) and rising
- Do not apply FLEXOLITH SG if surface temperature is within 5 °F (3 °C) of the dew point in the work area
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin FLEXOLITH SG
- Do not apply FLEXOLITH SG to slabs on grade unless an uninterrupted vapor barrier has been installed under the slab
- Do not apply FLEXOLITH SG if the substrate is subject to excessive moisture vapor drive or hydrostatic pressure
- Although FLEXOLITH SG is chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of a urethane topcoat such as EUCOTHANE for improved stain resistance.
- FLEXOLITH SG will discolor upon prolonged exposure to ultraviolet light and high-intensity artificial lighting. An aliphatic urethane topcoat such as EUCOTHANE can minimize these effects.
- Depending on the condition of the substrate, minor surface defects can appear in the coating when applied. Proper surface prep, patching of substrate imperfections, and priming will ensure a better overall finish.
- Application of a test area is recommended to confirm final appearance and texture of the system with the end user
- If FLEXOLITH SG is to be exposed to chemicals, contact Euclid Chemical Technical Service for a top coat recommendation
- In all cases, consult the product Safety Data Sheet before use

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