Flexxide® Elastomer

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Waterborne Acrylic Elastomer
Description	A high-quality, 100% acrylic-copolymer elastomeric wall coating with excellent durability and superior flexibility which allows for expansion in concrete or masonry surfaces and bridges small cracks. Used as a high build exterior/interior finish for industrial or commercial use on concrete and many other substrates.
Features	• Resistant to wind-driven rain in two coats per Federal Specification TT-C-555B • Over 400% elongation • Chalk resistant, color retentive • Contains mildewcide • Stain resistant • Breathable • Easy to clean • Low odor, low VOC
Color	Standard colors include: C705 (Light Grey) and S800 (White) A wide range of colors is available upon request using Carboline's Rapid Tint System (RTS). Contact your Carboline representative for RTS color availability.
Finish	Flat
Primer	Refer to Substrates & Surface Preparation.
Dry Film Thickness	6 mils (152 microns) per coat 2 coats are normally recommended.
Solids Content	By Volume 45% +/- 2%
Theoretical Coverage Rate	722 ft²/gal at 1.0 mils (17.7 m²/l at 25 microns) 120 ft²/gal at 6.0 mils (3.0 m²/l at 150 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : (EPA 24) 0.71 lbs/gal (96 g/l) These are nominal values and may vary slightly with color.
Limitations	Normally used at temperatures of 50°F and above. **Do not use below-grade or on back-filled retaining walls.**

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	Prime with appropriate corrosion resistant coating such as Carbocoat 115, Carboguard 890, or Carbomastic 15.
Galvanized Steel	Clean to remove all contaminants in accordance with SSPC-SP 1. Test to determine if any clear coats, chromate treatments, passivators, etc. are present in accordance with SSPC-SP 16. If present they must be removed per SSPC-SP 16. If none are present then clean the test areas per SSPC-SP 1. Then prime with Galoseal WB or Sanitile 120.

SUBSTRATES & SURFACE PREPARATION

Concrete or CMU	New construction tilt-up, pre-cast, and CMU constructed buildings with PH readings exceeding 8.5 should be primed with Sanitile® 120. All new concrete substrates must be allowed to cure for a minimum of 7 days at 75F(24°C), 50% RH and laitance, form releases, curing agents and hardeners must be removed by suitable method before coating application.
Drywall & Plaster	Joint compound and plaster should be fully cured prior to coating application. Prime with Sanitile 120.
Previously Painted Surfaces	Lightly sand or abrade to roughen surface and de-gloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 “X-Scribe” adhesion test. Prime with Sanitile 120.
Wood	Lightly sand with fine sandpaper and remove dust. Prime with Sanitile 120.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
Alkali Resistance ASTM D 1308	1 ct. Flexxide	Passes
Elongation ASTM D2370	1 ct. Flexxide	410% on a 12 mil free film
Mildew Resistance ASTM D 3273	1 ct. Flexxide	Passes
Tensile Strength ASTM D412	1 ct Flexxide	215 psi
Water Vapor Permeation ASTM D1653 Method B, Wet Cup	1 ct. Flexxide	46 perms
Wind Driven Rain TT-C-555B	2 ct. Flexxide	Passes

MIXING & THINNING

Mixing	Power mix until uniform in consistency. Avoid excessive air entrapment.
Thinning	Normally not required. Material is ready to apply as supplied. If needed thin up to ½ pint per gallon with clean potable water. Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	The following recommendations are the result of equipment manufacturer’s testing and field experience. Contact the specific equipment manufacturer if using equipment other than described here.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Airless Spray	Pump: Use a pump suitable for maintaining 2300 psi Material Hose: Minimum ¼ inch or larger for long distances Tip Size: 0.023-0.027" Reverse-A-Clean
Brush & Roller (General)	Use a good quality nylon or polyester brush. Use 9”-12" roller with rough 3/4” nap. Wet the roller thoroughly with water and spin it out before filling it with material. Apply liberally to specified wet film mils. Avoid dry rolling. Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	100°F (38°C)	130°F (54°C)	120°F (49°C)	90%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Do not apply if temperatures are expected to drop below 40°F (4°C) within 24 hours of application. Water base products are sensitive to moisture during cure. **Do not apply to frozen block or any masonry surface that has not completely thawed.** Special application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Dry to Handle or Recoat	Dry to Touch
40°F (4°C)	24 Hours	4 Hours
50°F (10°C)	12 Hours	2 Hours
60°F (16°C)	8 Hours	1.5 Hours
75°F (24°C)	5 Hours	1 Hour
90°F (32°C)	3 Hours	30 Minutes

These times are based on a 6.0 mil (175 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.
*Times listed are guidelines and will be dependent on jobsite conditions. Coating will be ready for topcoating once it reaches a dry to handle stage often referred to as a thumb-twist test. (Bear down onto the coating with moderate pressure using the thumb and twist 90°. If the film is not disturbed (slides/moves/wrinkles) it is suitable for re-coating.

CLEANUP & SAFETY

Cleanup	Use Carboline Surface Cleaner 3 followed by potable water rinse. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive.

PACKAGING, HANDLING & STORAGE

Shelf Life	12 months at 75°F (24°C)

PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity	40° -100°F (4°-40°C) 0-90% Relative Humidity
Shipping Weight (Approximate)	5 Gallons - 65 lbs (29 kg)
Flash Point (Setaflash)	Non-flammable

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.