



# protective coatings and resin flooring

PRODUCT DATA

## FLEXILIT C

### PRODUCT DESCRIPTION

Flexilit C is a two-component, IMO-approved, aliphatic polyurethane coating with excellent chemical and abrasion resistance. It is used in conjunction with an Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>) broadcast to increase slip resistance in areas requiring heightened antiskid properties. Either 36-grit and 60-grit Al<sub>2</sub>O<sub>3</sub> are typically used, dependent upon the desired slip resistance. Varying levels of aggregate may be broadcast, giving further flexibility to the balance between slip resistance and cleanability.

### PACKAGING

Flexilit C is packaged in units for easy handling. Each unit consists of:

- (1) 1 gallon can of Polyol
- (1) 1 gallon can of Isocyanate

### COVERAGE

One unit of Flexilit C will cover approximately 23 m<sup>2</sup> (250 ft<sup>2</sup>) of relatively smooth surface at 5 mil wet film thickness. This amounts to an application rate of approximately 0.2 kg/m<sup>2</sup>. Over rougher surfaces, a unit of Flexilit C will not cover the full 23 m<sup>2</sup>. The rougher or more porous the surface, the less area a unit will cover. It is important to get complete coverage without leaving pools of material in depressions.

### STORAGE CONDITIONS

Store all components of Flexilit C between 5 and 30°C (41 and 86°F) in a dry area. Avoid excessive heat and direct sunlight. Do not freeze. The shelf life of the material is 2 years in the original, unopened container.

### COLOR

Flexilit C is available in Grey. For more information on color options, contact an API USA representative.

### SUBSTRATE PREPARATION

Flexilit C is suitable for application over properly prepared API USA products. Before Flexilit application, the surface of the floor must be clean and dry. It is not recommended for coatings-only applications over metal, concrete, asphalt, mastic, gypsum-based products, brick or painted surfaces as the contours of these substrates will show through the coating. Questions regarding substrate preparation should be directed to an API USA representative.

### PHYSICAL CHARACTERISTICS

<b>Density</b> .....	1482.8 kg/m <sup>3</sup>
<b>Mix Ratio by Weight</b> .....	22.6/100
(Hardener/Base)	
<b>Mix Ratio by Volume</b> .....	3.0/1
(Base/Hardener)	
<b>VOC Content</b> .....	238 g/L
(ASTM D-3960)	
<b>Percent Solids</b> .....	84%
<b>Flash Point</b> .....	46°C (113°F)
<b>Pot Life</b> .....	45 min
(@23°C/74°F)	
<b>Recoat Time</b> .....	24 hours
(@23°C/74°F)	
<b>Cure Rate</b> .....	6-8 hours for initial set
(@23°C/74°F)	24 hours for light traffic
	7 days for ultimate physical properties

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment. Values obtained on field applied materials may vary, and certain test methods can only be conducted on lab-made test coupons.

### MIXING FLEXILIT C

Proper mixing is critical for the products to exhibit the proper application, cure and physical properties.

1. If the base shows signs of separation, pre-mix with a heavy-duty, slow-speed drill (400-600 rpm) with a Jiffy Mixer until homogenous.
2. Pour the contents of the base and hardener into a clean container and mix for 60 seconds. If necessary, add Accelerante and mix for an additional 30 seconds to catalyze the curing process. See the table in the Appendix to determine how much Accelerante to add.

### APPLYING FLEXILIT C

Flexilit C may be applied by brush or medium nap roller to 5-6 mil wet film thickness. Once applied, immediately broadcast the Al<sub>2</sub>O<sub>3</sub> into the wet material. Backroll to encapsulate and evenly distribute the aggregate. DO NOT SQUEEGEE the material. It is important to obtain proper coverage and not allow the material to puddle.

## RECOMMENDATIONS

- Apply only to clean, sound, dry and properly prepared substrates.
- Application and curing times are dependent upon ambient and substrate conditions.
- Minimum ambient and substrate temperatures are 5°C (41°F) at the time of application. However, it is not advisable to apply the material if the temperature is below 10°C (50°F).
- Maximum ambient and substrate temperatures are 35°C (95°F) at the time of application.
- Substrate temperature should be greater than 3°C (5°F) above the dew point.
- Do not apply material if the relative humidity exceeds 85%.
- Dispose of waste materials in accordance with government regulations.
- Clean all equipment immediately after use with scouring pads and acetone. Hardened material will require mechanical means for removal.

## PRECAUTIONS

- The use of safety glasses and impervious gloves is required during application.
- Avoid contact with all liquids as they may cause skin and/or eye irritation. In case of contact, flush the area with copious amounts of water for at least 15 minutes and seek medical attention.
- Wash hands thoroughly with soap and warm water after use.
- Use only with adequate ventilation.

## APPENDIX – ACCELERANTE

The table below shows how much Accelerante to add to each mix of Flexilit C, by volume and by weight. Add the Accelerante to the mix after transferring to a clean container.

<b>Temperature Range °C (°F)</b>	<b>Volume of Accelerante mL (fl. oz.)</b>	<b>Weight of Accelerante g (oz.)</b>
5-9 (41-48)	23.0 (0.77)	20.0 (0.71)
9-14 (48-57)	17.0 (0.57)	15.0 (0.53)
14-22 (57-72)	9.0 (0.30)	8.0 (0.28)
>22 (>72)	0	0

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