

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

GC-100

CONTINUATION SHEET USED: YES NO

Date: 3 September 2014

<p>I. GENERIC TYPE AND DESCRIPTION: Epoxy Terrazzo Filler Specification Number: MIL-PRF-24613</p>	
<p>II. MANUFACTURERS DATA:</p> <p>(a) MANUFACTURER: ITW Polymers Sealants North America, 111 S Nursery Road, Irving, TX 75060</p> <p>(b) PRODUCT DESIGNATION: American Safety Technologies GC-100</p> <p>(c) COLOR(S): Clear</p> <p>(d) USES: Epoxy Terrazzo Sealer/ Filler</p> <p>(e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone Number): 800-878-7876, Fax: 972-554-3939, Email: orders1@itwsealants.com, web site: www.itwast.com</p> <p>(f) NOT RECOMMENDED FOR: N/A</p>	
<p>III. PROPERTIES:</p> <p>(a) % VOLUME SOLIDS (ASTM D 2697): 86.1%</p> <p>(b) % WEIGHT SOLIDS (ASTM D 1475)</p> <p>(c) FLASH POINT (ASTM D93): > 108°F (42°C)</p> <p>(d) WEIGHT PER VOLUME (FTMS 141a4184.1): 8.7 lbs/gal</p> <p>(e) % EDGE RETENTION: N/A</p> <p>(f) SHELF LIFE: 1 Year</p> <p>(g) VISCOSITY (FTMS 141a 4281): Less than 1000 cps @ 75°F</p> <p>(h) PACKAGING: ½ gallon kit</p> <p>(i) NUMBER OF COMPONENTS: 2</p> <p>(j) GLOSS (ASTM D 523): N/A</p> <p>(k) STORAGE REQUIREMENTS: TEMP. MIN. <u>40°F</u> MAX. <u>100°F</u> (Long term) 24 Hours prior to mixing TEMP. MIN. <u>60°F</u> MAX. <u>80°F</u></p> <p>(l) SPECIAL PROPERTIES: N/A</p>	
<p>IV. SURFACE PREPARTION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):</p> <p>(a) Refer to NAVSEA Standard Item 009-32.</p>	
<p>SPECIAL SAFETY PRECAUTIONS:</p>	
<p>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! IRRITANT Read MSDS before use. Do not get in eyes. Avoid contact with skin and clothing. Avoid inhalation vapor or mist. Use with adequate ventilation. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing and wash before use.</p> <p>OTHER PRECAUTIONS: Avoid extreme heat – keep away from flame, do not exceed 110°F.</p>	
<p>V. MIXING PROCEDURES: (Improperly mixed material will not cure properly)</p> <p>(a) MIXING RATIOS BY WEIGHT: 2.3:1 BY VOLUME: 1.9:1</p>	

ASTM F 718

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(b) INDUCTION TIME: N/A

(c) RECOMMENDED SOLVENT – THINNING: None

CONFINED AREAS: N/A

NON-CONFINED AREAS: N/A

CLEAN UP: Isopropyl Alcohol/Aromatic Naptha/
N-Methyl Amyl Ketone (MAK) / S-426 or S-31 Solvent

(d) THINNING REQUIRMENTS (RATIO): NO THINNING ALLOWED

(e) POT LIFE:

20 Min. @ 90 °F (32°C)
40 Min. @ 70 °F (21°C)
1 Hr(s) @ 50 °F (10°C)

(f) SPECIAL INSTRUCTIONS: Pre-mix Part A, base component, to ensure all materials which may have settled during storage are lifted from the bottom. Mix Part A and Part B components together with a mechanical/power mixer for a minimum of 3 minutes or until the mixed material assume a uniform color and appearance. Scrape the bottom and sides of the pail and mix again for minimum 3 minutes.

VI. APPLICATION: **NOTE: Environmental conditions must be taken into consideration when determining curing time of epoxy coatings. Cooler temperatures extend curing times, warmer temperatures shorten curing times.**

(a) ENVIRONMENTAL LIMITATIONS:

TEMPERATURE: MIN. 50°F MAX. 90°F
MAXIMUM PERCENT RELATIVE HUMIDITY: 85%

(b) FILM THICKNESS (SSPC PA2-73T) -

PER COAT:
WET MIN: 6 mils WET MAX: 12 mils
DRY MIN: 5 mils DRY MAX: 10 mils

(c) DRY TIMES (ASTM D 1650):

Recoat:			
Temperature	50°F (10°C)	70°F (21.1°C)	90°F (32.2°C)
Min @ 50% R.H	1 Hr	0.5 Hr	0.3 Hr
Dry to Handle			
Min @ 50% R.H	12 Hrs	6 Hrs	3 Hrs
For Immersion	24 Hrs	12 Hrs	6 Hrs

(d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS): Roller with extended handle, adequate power or mechanical mixer.

(e) SPECIAL INSTRUCTIONS: Do not apply material when deck temperature is under 50°F or over 90°F. At time of application, material temperature must be greater than 60°F and less than 80°F.

NOTE: Is formulated to be applied within parameters listed on this document. MIL-PRF-24613 QPL applications may adjust the environmental and application procedures recommended by this ASTM F-718.

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