

PERFORMANCE CRITERIA (Confidential — DO NOT DUPLICATE)

ABRASION

Method: ASTM D 4060, (CS-17 Wheel, 1,000 grams load).
System: One coat Series 201 Epoxoprime cured thirty days at 75°F (24°C).
Requirement: 69.5 mg loss after 1,000 cycles, average of three tests.

ADHESION

Method: ASTM D 4541.
System: One coat Series 201 Epoxoprime applied to concrete and cured seven days at 75°F (24°C).
Requirement: 400 psi (2.8 MPa) pull, average of three tests.
Note: 100% Concrete Failure

COMPRESSIVE STRENGTH

Method: ASTM D 695.
System: Series 201 Epoxoprime cured seven days at 75°F (24°C).
Requirement: 6,865.7 psi (47.34 MPa) compressive strength unfilled.

COEFFICIENT OF FRICTION

Method: ASTM D 2407.
System: Series 201 Epoxoprime cured fourteen days at 75°F (24°C).
Requirement: 0.88 static coefficient of friction, average of 12 tests.

FLEXURAL STRENGTH AND MODULUS OF ELASTICITY

Method: ASTM D 790.
System: Series 201 Epoxoprime cured seven days at 75°F (24°C).
Requirement: 12,873.4 psi (88.76 MPa) flexural strength average of five tests. 553,832 psi (3,818.54 MPa) flexural modulus, average of five tests.

HARDNESS

Method: ASTM D 2240 (Shore D Durometer).
System: Series 201 Epoxoprime cured three days at 75°F (24°C).
Requirement: Durometer rating 68.

HUMIDITY

Method: ASTM D 4585.
System: One coat Series 201 Epoxoprime cured seven days at 75°F (24°C).
Requirement: No blistering, cracking or delamination of film after 1,500 hours exposure.

IMPACT

Method: ASTM D 2794.
System: One coat Series 201 Epoxoprime cured seven days at 75°F (24°C).
Requirement: 100 inch pounds (11.3 J) average, direct impact.



This product will meet or exceed the above test requirements established for the coating systems listed. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. Published technical data is subject to change without notice. For additional performance criteria and specific test results, contact Tnemec Company or its representative.

STAIN RESISTANCE

Method: ASTM D 1308.

System: One coat Series 201 Epoxoprime cured seven days at 75°F (24°C).

Requirement: No effect after 24 hours exposure to the following reagents:

Grape Jam	Fountain Ink
Coffee	Crayon
Vegetable Oil	Dish Soap
Lyscol	Margarine
Red Lipstick	.

TENSILE STRENGTH

Method: ASTM D 638

System: Series 201 Epoxoprime cured seven days at 75°F (24°C).

Requirement: 4,871.1 psi (33.59 MPa) tensile strength, average of five tests.

EPOXOPRIME®
SERIES 201

PRODUCT PROFILE

GENERIC DESCRIPTION	Modified Polyamine Epoxy
COMMON USAGE	High-solids moisture tolerant epoxy used for priming concrete, wood and drywall. Also as a stand-alone one-coat clear floor sealer.
COLORS	Clear. Note: Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause yellowing to occur.

COATING SYSTEM

SURFACER/FILLER/PATCHER	Series 63-1500, 130, 218, 219 Note: A repair kit of 201, with Part C fumed silica, is available for small patching/surfacing repairs. For more extensive repairs and additional information, contact your Tnemec representative or Tnemec Technical Services.
TOPCOATS	Series 201, 206, 210, 222, 223, 224, 237, 238, 239, 270, 273, 275, 280, 281, 282, 434, 435, 436. Note: Refer to the applicable topcoat data sheet for color availability and additional information.

SURFACE PREPARATION

	Prepare surfaces by method suitable for exposure and service.
HORIZONTAL CONCRETE	Allow new concrete to cure 28 days. Verify dryness by testing for moisture with a "plastic film tapedown test" (Reference ASTM D 4263). Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (Reference ASTM F 1869). Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Shot-blast or mechanically abrade to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide surface profile (Reference SSPC-SP13, ICRI CSP 3 thru 9). Large voids and other cavities should be filled with recommended filler or surfer.
VERTICAL CONCRETE	Allow new concrete to cure 28 days. Abrasive blast or mechanically abrade concrete to remove laitance, form release agents, curing compounds, hardeners, sealers and other contaminants and to provide surface profile (Reference SSPC-SP13).
CMU	Allow new mortar to cure 28 days. Surfaces must be clean, dry, sound and free of all contaminants. Level all protrusions and mortar spatter.
DRYWALL	Sand joint compound smooth and feather edge.
WOOD	Sand rough areas. Seal knots and pitch pockets. Fill cracks and nail holes before primer is topcoated.
PAINTED SURFACES	Contact your Tnemec representative.
ALL SURFACES	Must be clean, relatively dry and free of oil, grease, curing compounds/sealers, hardeners and other contaminants. Application will tolerate residual dampness from surface preparation process but not puddled water, glistening concrete or inherently wet concrete.

TECHNICAL DATA

VOLUME SOLIDS	100% (mixed)
RECOMMENDED DFT	Concrete: Horizontal: 6.0 to 12.0 mils (150 to 305 microns) per coat. Vertical - 4.0 to 6.0 mils (100 to 150 microns) per coat. Drywall & Wood: 4.0 to 6.0 mils (100 to 150 microns) per coat—two coats applied at 30 to 45 minute intervals.

CURING TIME

Temperature	Maximum Recoat Time	To Place in Service
75°F (24°C)	24 hours	24 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.

Ventilation: When used as a tank lining or in enclosed areas, provide adequate ventilation during application and cure. Reference ventilation guidelines contained in the latest edition of AWWA D 102. **Note:** If Series 201 is used as the primer for a mortar system, the mortar application should take place while the Series 201 is still tacky, typically up to four hours, otherwise, aggregate should be lightly broadcast into the primer so to provide tooth to hold the mortar in place when spread. When the Series 201 is used as a vertical or horizontal primer for a thin film system, the 201 should be allowed to dry hard without exceeding the 24 hour recoat window. If Series 201 is used as the primer for the Series 270 or 275 Stranlok system, the Series 201 should be allowed to tack up for approximately one to four hours depending upon temperature but not allowed to dry hard.

VOLATILE ORGANIC COMPOUNDS	Unthinned: 0.24 lbs/gallon (28 grams/litre) Thinned 5% (No. 2 Thinner): 0.57 lbs/gallon (68 grams/litre) Thinned 5% (No. 42 Thinner): 0.55 lbs/gallon (65 grams/litre)
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HAPS	Unthinned: 0.0 lbs/gal solids Thinned 5% (No. 2 Thinner): 0.37 lbs/gal solids Thinned 5% (No. 42 Thinner): 0.0 lbs/gal solids
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THEORETICAL COVERAGE 1,604 mil sq ft/gal (39.4 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS Two: Part A and Part B (2 Parts A to 1 Part B by volume)

PACKAGING

	PART A	PART B	Yield (mixed)
Extra Large Kit	2-55 gallon drums	1-55 gallon drum	165 gallons
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons
Small Kit	2-1 gallon cans	1-1 gallon can	3 gallons

EPOXOPRIME® | SERIES 201

NET WEIGHT PER GALLON	9.50 ± 0.25 lbs (4.31 ± .11 kg) (mixed)
STORAGE TEMPERATURE	Minimum 40°F (4°C) Maximum 90°F (32°C) Note: Material should be stored at temperatures between 70°F and 90°F (21°C and 32°C) for at least 48 hours prior to use.
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)
SHelf LIFE	12 months at recommended storage temperature.
FLASH POINT - SETA	N/A
HEALTH & SAFETY	This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product. Keep out of the reach of children.

APPLICATION

COVERAGE RATES Before commencing, obtain and thoroughly read the StrataShield Installation and Application Guide for floors.

	Dry Mills (Microns)	Wet Mills (Microns)	Sq Ft/Gal (m²/Gal)
Horizontal	6.0-12.0 (150-305)	6.0-12.0 (150-305)	134-267 (12.2-24.8)
Vertical	4.0-6.0 (100-150)	4.0-6.0 (100-150)	267-401 (24.8-37.3)

Allow for overspray and surface irregularities and waste. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.

MIXING Use a variable speed drill with a PS Jiffy blade. Slowly mix 2 parts A component, and while under agitation add 1 part B component and mix for a minimum of two minutes. Ensure that all Part B is blended with Part A by scraping the pail walls with a flexible spatula.
Note: A large volume of material will set up quickly if not applied or reduced in volume.
Caution: Do not reseal mixed material. An explosion hazard may be created.

THINNING Normally not required. May thin up to 5% or 1/4 pint (190 mL) to improve application properties. Brush and roll applications use No. 2 Thinner. Spray applications use No. 42 Thinner.

POT LIFE 25 to 30 minutes at 75°F (24°C)
Material temperatures above 90°F (32°C) will significantly reduce the pot life.

APPLICATION EQUIPMENT Brush, roller, squeegee and airless spray.
Roller: Use high quality 3/8" to 1/2" woven nap, shed resistant, roller cover.
Brush: Use high quality synthetic or nylon bristle brush.
Horizontal: Squeegee and backroll. Brush small areas only.
Vertical: Roll, spray and backroll or airless spray based on substrate conditions. Brush small areas only.
Spray application equipment includes a Graco "King" 45:1 or 56:1 airless spray pump or other airless spray equipment of equal or greater configuration and capability. Pump assembly should include a moisture trap and oiler, air regulator with gauge and fluid outlet drain valve. When spraying these nonfibred coatings, a high pressure manifold and 60 mesh filter is recommended. Use a 3/8" to 1/2" I.D. material hose (4,000-5,000 psi working pressure rating). A Graco silver gun or equivalent may be used. The preferred tips with orifices ranging from .019" to .033" should be mounted in a Graco H.D. RAC Housing/Guard assembly. The suggested operating air pressure is 80 to 90 psi. **Spraying should be considered as a means to transfer the material to the surface and should be followed by backrolling.**

SURFACE TEMPERATURE Minimum of 55°F (13°C), optimum 65°F to 80°F (18°C to 27°C), maximum of 90°F (32°C). The substrate temperature should be at least 5°F (3°C) above the dew point.

MATERIAL TEMPERATURE For optimum application, handling and performance the material temperature during application should be between 70°F and 90°F (21°C and 32°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life.

CLEANUP Flush and clean all equipment immediately after use with xylene or MEK.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB	
PROJECT NAME	
8274 BIG BEND BLVD	
ADDRESS	
NUMBER	
WEBSTER UNIVERSITY	
OWNER	
CANNON DESIGN	
ARCHITECT / ENGINEER	
Joe Voypick	
SUBMITTED BY	
096723-008	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
	096723
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
	CRITICAL

ITEM BEING SUBMITTED (check only one)

- | | | |
|--------------------------------------|---|--|
| ☐ Shop Drawings | ☐ Certification / | ☐ Coordination Drawing |
| ☐ Samples | ☐ Qualifications | ☐ Calculations |
| (_____ copies) | ☐ Record Documents | ☐ Schedules |
| ☐ LEED Submittal | ☒ Product Data | ☐ O&M Manuals |
| ☐ Other _____ | | |

ITEM BEING SUBMITTED FOR (check only one)

- ☒ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

Samples pending color choice and LEED submittals forthcoming.

CONTRACTOR / CM CERTIFICATION (SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:

Devin D. Gates

Joe Voypick	12/6/16
REVIEWED BY	DATE

To be completed by Reviewer

09 6723-008
CANNON DESIGN SUBMITTAL NUMBER
12/7/16
RECEIVED DATE

- ☐ A. No Exceptions Taken
No further review of submittal is required.
- ☒ B. Make Corrections Noted
Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
Revise as noted, and resubmit for review.
- ☐ D. Rejected
Submittal is not in compliance with Contract Documents; provide new submittal.
- ☐ E. For Record / Information Only
Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

Provide physical samples for Q201, Q205, and Q206.

Kelvin Patel	12/14/16
REVIEWED BY	DATE

Digitally signed by Kelvin Patel
DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design,
OU=Architect, CN=Kelvin Patel
Date: 2016.12.14 14:37:30 -06'00'



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0374

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/06/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Resinous Flooring Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		096723-008	1		12/06/2016	Resinous Flooring Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates