

Tnemec Fluid Applied Thermal Break Short Form Specification

2.02 MATERIALS

- A. Tnemec Aerolon Series 971, 961(special order) and 945 Peel & Stick Fluid Applied Acrylic Insulative Coating Thermal Break, an Aerogel Based Coating, conforming to the following requirements: Material may be shop and/or field applied touched up by roller. Apply directly over Tnemec Series 394 or 1224 Primer as called for in shop primer section 2.01.6, topcoat if architecturally exposed with Tnemec Series 1029 Enduratone @ 3.0 mils DFT. If not exposed to view no topcoat is required.
- B. Thermal Conductivity - The fluid applied acrylic insulative coating "Aerolon" is an aerogel-based material thermal break. It shall be applied at the required thickness to provide the required R - Value of R - 0.10 to R-1.5. In no case, shall the thickness be less than the required R value **of 35mW/mK per inch for the Tnemec Series 971 Aerolon, no less than 47mW/mK 945 Peel & Stick Aerolon,** no "R" equivalent data is acceptable.
- ASTM E 84 – Class A
 - ASTM D 5894 – 4,00 hrs. Prohesion
 - ASTM B 117 – 4,000 hrs. Salt Fog
 - ASTM D 870 – 4,000 hrs Immersion
 - ASTM D 4585 – 4,000 hrs Humidity
 - ASTM D870 Method B – 2,000 hrs. 140°F DI Water Immersion
 - ASTM D 4060 (CS-17 Wheel, 1,000g load) – No more than 50 mg loss after 1,000 cycles
 - 3 Year (12 months) Roof Exposure No Affect
 - Compatible with WR Grace Mk6, 106 and Z146 and Isolatak equal densities
 - Compatible with DOW 790 Sealant
 - Passes NORSOK 501 REV 6

Series 971/961 Thickness	Approximate R-Value
40 mils (1/25)	0.164
60 mils (1/16)	0.25
120 mils (≈1/8")	0.5
250 mils (≈1/4")	1
380 mils (≈3/8")	1.5

Note 1- Tnemec Series 971 Aerolon Fluid Applied Acrylic Insulative Coating is to be applied to steel members 18" from the exterior of the building facade and continuously back the width of wall section, 18" to the warm side of the wall section to the interior of the building past the AVB to the inside face of the wall cavity. For Tnemec Series 971 Aerolon on W sections thickness is 60-70 mils DFT, for HSS tubes 120mils. If space has less than 36" overall, call Tnemec Representative for recommendation of thickeness of non-standard design.

Note 2- Field erection/handling of coated steel member shall be in accordance with AISC for handling and erecting a finished product. Off set Aerolon coated steel on dunnage to minimize damage.

Topcoats- If required, apply Tnemec Series 1029 Enduratone. 750 Endura-Shield or 1071 Flouronar as topcoats for non-immersion services. Apply Tnemec Series 22 Epoxoline for areas where immersion is required.

END OF SECTION

Specifier Notes: This product selection guide is written according to the Construction Specifications Institute (CSI) Format, including *Master Format*, *Section Format*, and *Page Format*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

Specifier Notes: This section covers Tnemec high-performance coating systems for commercial facilities.

This specification is only a guide listing various coating system options for various environments and should not be used as a final specification. Additional coating systems not listed in this specification are available and may be more appropriate for your coating application. To finalize this specification, please contact www.rightergroup.com

Many coatings contain organic solvents. Consult Righter Group, Inc. for compliance to local VOC regulations.

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