



Novagard Solutions, Inc.

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This Manu-Spec® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A Manu-Spec is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

If this section is to be used as a general purpose sealant section, then it is recommended that the number and title be changed to Section 07 92 00 - Joint Sealants and that the text within the Section be edited accordingly.

This Manu-Spec specifies joint sealant for metal roofing systems and accessories.

07 72 00 ROOF ACCESSORIES

PART 1 GENERAL

1.1 SUMMARY

Specifier Note: Retain and edit the following Paragraph to suit type of sealant being specified.

- A. Section Includes: This Section specifies joint sealant for metal roofing systems and accessories.

Specifier Note: Retain and edit the following Paragraph to meet the Project requirements. Delete the Paragraph if it is not needed.

- B. For sealants specifically for use as general purpose weather sealing or for use by window Original Equipment Manufacturers (OEM) refer to Section [07 92 00 - Joint Sealants] [08 05 00 - Common Work Results for Openings].

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles as recommended by CSI MasterFormat and specifiers practice.

- C. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [07 92 00 - Joint Sealants: general purpose sealants].
2. Section [08 05 00 - Common Work Results for Openings: general purpose sealants].

1.2 REFERENCES



Novagard Solutions, Inc.

Specifier Note: Define terms that are unique to this Section and are not provided elsewhere in the contract documents. Include in this Article terms that are unique to the work result specified that may not be commonly known in the construction industry. Delete the following Paragraph if no Definitions are required.

A. Definitions:

1. [].

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced and update as applicable. Contract Conditions Section 01 42 00 - References may be used to establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

B. Reference Standards:

1. American Architectural Manufacturers Association (AAMA).
 - a. AAMA 803.3-[1976], Specification for Narrow Joint Seam Sealer for Use with Architectural Aluminum.
 - b. AAMA 805.2-[1971], Specification for Bonding Type Back Bedding Compound for use with Architectural Aluminum.
 - c. AAMA 808.3-[1992], Exterior Perimeter Sealing Compound.
2. ASTM International (ASTM).
 - a. ASTM C920-[2018], Standard Specification for Elastomeric Joint Sealants.
3. Interim Federal Specification (IFS)
 - a. IFS TT-S-001543A-[], Sealing Compound: Silicone Rubber Base (for Caulking, Sealing, and Glazing in Buildings and Other Structures).
 - b. IFS TT-S-230A-[], Federal Specification: Sealing Compound, Synthetic-Rubber Base, Single Component Chemically Curing (for Caulking, and Glazing in Building Construction).
4. International Organization for Standardization. (ISO).
 - a. ISO 9001-[2015], Quality Management Systems -- Requirements.
 - b. ISO/TS 16949-[2009], Quality Management Systems -- Particular Requirements for the Application of ISO 9001:2008 for Automotive Production and Relevant Service Part Organizations.
5. US Green Building Council (USGBC).
 - a. LEED NC Version 4-[2018], LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Contract Conditions and Section 01 33 00 - Submittal Procedures.

1.3 SUBMITTALS

- A. Make submittals in accordance with Section [01 33 00 - Submittal Procedures].
- B. Product Data: Manufacturer's standard specifications and descriptive literature, including:
 1. Product characteristics.
 2. Material Safety Data Sheets (MSDS) for sealant materials prior to delivery to site.
- C. Samples: Submit color samples for each color of sealant specified.
- D. Manufacturer's Written Instructions, including:
 1. Delivery, storage and handling recommendations.
 2. Preparation and application recommendations.

- E. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
- F. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria, and physical requirements.

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 - Warranties.

- G. Installer's Experience: Submit verification of evidence of work similar to the work of this Section.
- H. Warranty: Fully executed, issued in [Owner's] name, and registered with manufacturer, following instructions at www.novagard.com/warranty.

Specifier Note: Retain the following only if specifying for a LEED project. Specify only the technical submittal requirements necessary to achieve the credits desired for this Project.

- I. Sustainable Design (LEED) Submittals:
 1. LEED Submittals: In accordance with Section [01 35 21 – LEED Requirements].
 2. Submit verification for items when appropriate as follows:
 - a. MR 5.1 and MR 5.2 for Regional Materials.
 - b. [].

1.4 CLOSEOUT SUBMITTALS

Specifier Note: Retain and edit the following Paragraph to suit type of sealant being specified.

- A. Operation and Maintenance Data: Supply maintenance data for sealant for incorporation into manual specified in Section 01 78 00 Closeout Submittals.

Specifier Note: If LEED is not a part of the project delete the following Paragraph in its entirety.

- B. Sustainable Design Closeout Documentation (LEED): Provide calculations on end-of-project recycling rates, salvage rates, and landfill rates for work of this Section demonstrating percentage of construction wastes which were recycled.
 1. Submit verification from recycling facility showing receipt of materials.
- C. Record Documentation: In accordance with Section 01 78 00 Closeout Submittals.

Specifier Note: Retain and edit the following Paragraph to suit type of sealant being specified.

1. List materials used in roof accessories work.
2. Warranty: Submit warranty documents specified.

1.5 QUALITY ASSURANCE

- A. Installer: Experienced in performing work similar to work in this Section.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in accordance with manufacturer's written instructions.
 1. Deliver components in manufacturer's original, unopened, undamaged packaging with identification labels intact and product name and manufacturer clearly visible, and in sizes to suit project.
 2. Inspect each package for damage and promptly contact Novagard Solutions, Inc. directly to report damaged packages or materials.
 3. Replace damaged materials with new immediately.
- B. Store materials in manufacturer's unopened packaging until ready for installation between 40 and 75 degrees F.

1.7 FIELD CONDITIONS

- A. Apply materials only when ambient conditions are above -20 degrees F.
- B. Apply only when surface temperature is between 0 and 120 degrees F.

1.8 WARRANTY

- A. Project Warranty: Refer to Contract Conditions for project warranty provisions.
- B. Manufacturer's warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document obtained through registration at www.novagard.com/warranty.
 - 1. Manufacturer's [5-year] [10-year] [20-year] limited warranty is in addition to and not intended to limit other rights Owner may have under Contract Conditions.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes performance characteristics, material standards and descriptions in other Articles as applicable. Use of such phrases as or equal, approved equal or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining or equal products.

2.1 MANUFACTURER

- A. Novagard Solutions Inc.
- B. 5109 Hamilton Avenue, Cleveland, Ohio, 44114; Phone: (800) 380-0138; Fax: (216) 881-5318; Email: novaflexorders@novagard.com; Website: www.novagard.com.
- C. Comply with ISO 9001:2015 and IATF 16949:2016.

2.2 PERFORMANCE REQUIREMENTS

- A. Comply with IFS TT-S-001543A and TT-S-230C.
- B. Comply with AAMA 803.3 (1), AAMA 805.2 C, and AAMA 808.3.
- C. UV resistant: To ASTM C920.
- D. Moisture resistant: To ASTM C920.
- E. Tensile Strength: 140 to 220 psi to ASTM D412.
- F. Tear Resistance: 30 to 35 pli.

2.3 DESCRIPTION

Specifier Note: Retain and edit the following Paragraph to suit type of roof accessories being specified.

- A. Non-sag, single component, non-corrosive, oxime cured joint sealant for metal roofing systems and accessories to ASTM C920, Type S, Grade NS Class 35/50.

Specifier Note: Retain and edit the following Paragraph to suit Project requirements. There are over 70 colors for metal roof applications and over 170 multipurpose application colors. Custom colors are also available. Contact Novagard Solutions Inc. for more information and accurate descriptions of the available or custom colors.

- 1. Color: [To match adjacent materials] [As selected by Architect from manufacturer's standard range].

Specifier Note: Retain and edit the following Paragraph to suit project requirements. Novaflex MR Type I is an unfilled Class 35 style of product. Novaflex MR Type II is a filled Class 50 style of product.

- B. Acceptable Material: Novagard Solutions Inc., Novaflex MR [Type I] [Type II].

2.4 PRODUCT SUBSTITUTIONS

- A. Substitutions: [In accordance with Section 01 23 13 - Product Substitution Procedures] [No substitutions permitted].

PART 3 EXECUTION

3.1 INSTALLER

- A. Use only installers who have training and experience of work similar to work of this Section.

3.2 EXAMINATION

Specifier Note: Retain and edit the following Paragraph to suit type of roof accessories being specified.

- A. Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for sealant application in accordance with manufacturer's written recommendations.
1. Visually inspect substrate in presence of Architect.
 2. Inform Architect of unacceptable conditions immediately upon discovery.
 3. Proceed with application only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Architect.

Specifier Note: Retain and edit the following Paragraph to suit type of sealant being specified.

4. Starting application of sealant implies substrate conditions are acceptable for Work of this Section.

3.3 APPLICATION

Specifier Note: Choose one only of the following two Paragraphs to suit Project requirements.

- A. Apply sealant in accordance with Section [07 92 00 - Joint Sealants].
- B. Apply sealant in accordance with manufacturer's written recommendations.
1. Ensure substrate temperature is between 0 and 120 degrees F.
 2. Apply only to dry, clean and grease free surfaces.
 3. Apply sealant free of air pockets, foreign embedded matter, ridges, and sags.
 4. Tool joints concave.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection: Coordinate field inspection in accordance with Section [01 45 00 Quality Control].
1. Monitor and report installation procedures and unacceptable conditions immediately to Architect.

3.5 CLEANING

- A. Perform daily progress cleaning.
1. Leave work area clean at end of each day.
- B. Upon completion, remove surplus materials, rubbish, tools and equipment.
- C. Collect recyclable waste and dispose of in accordance with manufacturer's written recommendations and at appropriate recycling facilities.

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Include only statements unique to this Section. Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

Specifier Note: Retain and edit the following Article to suit type of sealant being specified.



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3.6 PROTECTION

- A. Protect applied sealants from damage until cured.
- B. Repair or replace adjacent materials damaged by application of sealants.

END OF SECTION