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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 typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies Jiffy Seal 140/60 peel-and-stick sheet membrane waterproofing products. These products are manufactured by Protecto Wrap Co. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

SECTION 07 13 00
SHEET WATERPROOFING

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 01 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM D146 Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing.
 2. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
 3. ASTM D570 Standard Test Method for Water Absorption of Plastics.
 4. ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.
 5. ASTM E154 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.
- B. General Services Administration, Public Building Service (GSA):
 1. PBS 07115 Guide Specification for Elastomeric Roofing.

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

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section.



- B. Product Data: Submit product data, including manufacturer's SPEC-DATA® sheet, for specified products.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

- C. Samples: Submit 6 inch × 6 inch (152 × 152 mm) samples of specified membrane(s).

1.04 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
1. [Code agency name].
 - a. [Report or approval number].

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 01 Product Requirements Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.06 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, Manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.
1. Warranty Period: 5 years commencing on Date of Substantial Completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or 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.

2.01 SHEET WATERPROOFING

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Protecto Wrap Co.
1. Contact: 1955 South Cherokee St., Denver, CO 80223; Telephone: (800) 759-9727, (303) 777-3001; Fax: (303) 777-9273; E-mail: info@protectowrap.com; website: www.protectowrap.com.

Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 01 Project Requirements (Product Substitutions Procedures) Section.

- B. Substitutions: No substitutions permitted.

2.02 MATERIALS

Specifier Note: Refer to manufacturer's SPEC-DATA sheet for substrates to which these membranes can be applied.

- A. Jiffy Seal 140/60:
1. Thickness: 60 mils (1.5 mm).
 2. Tensile Strength: As follows when tested in accordance with ASTM D412:
 - a. Membrane: 425 psi.
 - b. Polyester Reinforcement: 3200 psi.
 3. Elongation: 500% when tested in accordance with ASTM D412.
 4. Permeance: 0.003, maximum, when tested in accordance with ASTM E96, Method B.
 5. Puncture Resistance: 80 pounds (356 N) when tested in accordance with ASTM E154.
 6. Pliability: Passes when tested in accordance with ASTM D146.
 7. Tensile Strength: 600 psi (4.1 MPa), minimum, when tested in accordance with ASTM D412.
 8. Water Absorption: 0.23, maximum, when tested in accordance with ASTM D570.
 9. Exposure to Fungi in Soil (16 week exposure): Unaffected when tested in accordance with GSA PBS 07115.

Specifier Note: Membrane below is for cold weather applications.

- B. Jiffy Seal 140/60 CW:
1. Thickness: 60 mils (1.5 mm).
 2. Tensile Strength: As follows when tested in accordance with ASTM D412:
 - a. Membrane: 425 psi.
 - b. Polyester Reinforcement: 3200 psi.
 3. Elongation: 500% when tested in accordance with ASTM D412.
 4. Permeance: 0.003, maximum, when tested in accordance with ASTM E96, Method B.
 5. Puncture Resistance: 80 pounds (356 N) when tested in accordance with ASTM E154.
 6. Pliability: Passes when tested in accordance with ASTM D146.
 7. Tensile Strength: 600 psi (4.1 MPa), minimum, when tested in accordance with ASTM D412.
 8. Water Absorption: 0.23, maximum, when tested in accordance with ASTM D570.
 9. Exposure to Fungi in Soil (16 week exposure): Unaffected when tested in accordance with GSA PBS 07115.

Specifier Note: Membrane below is for use in Alaska.

- C. Jiffy Seal 140/60 AK:
1. Thickness: 60 mils (1.5 mm).
 2. Tensile Strength: As follows when tested in accordance with ASTM D412:
 - a. Membrane: 425 psi.
 - b. Polyester Reinforcement: 3200 psi.
 3. Elongation: 500% when tested in accordance with ASTM D412.
 4. Permeance: 0.003, maximum, when tested in accordance with ASTM E96, Method B.
 5. Puncture Resistance: 80 pounds (356 N) when tested in accordance with ASTM E154.
 6. Pliability: Passes when tested in accordance with ASTM D146.
 7. Tensile Strength: 600 psi (4.1 MPa), minimum, when tested in accordance with ASTM D412.
 8. Water Absorption: 0.23, maximum, when tested in accordance with ASTM D570.
 9. Exposure to Fungi in Soil (16 week exposure): Unaffected when tested in accordance with GSA PBS 07115.

Specifier Note: Product below is for application on bridge decks and parking structures where extra strength may be required.

D. Jiffy Seal 400:

1. Thickness: 70 mils (1.8 mm).
2. Tensile Strength: As follows when tested in accordance with ASTM D412:
 - a. Membrane: 425 psi.
 - b. Polyester Reinforcement: 3200 psi.
3. Elongation: 500% when tested in accordance with ASTM D412.
4. Permeance: 0.002, maximum, when tested in accordance with ASTM E96, Method B.
5. Puncture Resistance: 80 pounds (356 N) when tested in accordance with ASTM E154.
6. Pliability: Passes when tested in accordance with ASTM D146.
7. Tensile Strength: 500 psi (3.5 MPa), minimum, when tested in accordance with ASTM D412.
8. Water Absorption: 0.23, maximum, when tested in accordance with ASTM D570.
9. Exposure to Fungi in Soil (16 week exposure): Unaffected when tested in accordance with GSA PBS 07115.

Specifier Note: Product below is for detailing around protrusions, drains, footings and uniform surfaces and should always be retained.

E. Jiffy Seal 500:

1. Thickness: 60 mils (1.5 mm).
2. Elongation: 1500% when tested in accordance with ASTM D412.
3. Permeance: 0.003, maximum, when tested in accordance with ASTM E96, Method B.
4. Pliability: Passes when tested in accordance with ASTM D146.
5. Water Absorption: 0.23, maximum, when tested in accordance with ASTM D570.
6. Exposure to Fungi in Soil (16 week exposure): Unaffected when tested in accordance with GSA PBS 07115.

Specifier Note: See manufacturer's SPEC-DATA sheet for information on accessories below. Retain accessories to suit project requirements.

2.03 ACCESSORIES

Specifier Note: Primer below is for vertical applications.

- A. Jiffy Seal No. 100 Primer.
- B. Jiffy Seal No. 100 VOC Primer.

Specifier Note: Primer below is for horizontal applications.

- C. Jiffy Seal No. 80 Primer.
- D. Jiffy Seal No. 80 VOC Primer.

Specifier Note: Primer below is for green concrete.

- E. Jiffy Seal No. 80 Green Primer.

Specifier Note: Primer below contains no VOCs.

- F. Jiffy Seal No. 6000 Water-Based Primer.

Specifier Note: Mastic below is used for sealing detail cuts and membrane terminations and should always be retained.

- G. Jiffy Seal No. JS160H Mastic.

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

END OF SECTION