**VAPORDRYTM SA - SELF-ADHERED VAPOR PERMEABLE ROOFING UNDERLAYMENT**

**PART 1 GENERAL**

1.01 SUMMARY

1. Section Includes: Underlayment for Wood Shingle & Shake Construction (also Metal Roofing)

*Specifier Note: Revise paragraph below to suit project requirements. 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 paragraph below. Add section numbers and titles as necessary and in the absence of related sections, delete paragraph below.*

1. Related Sections
	1. Division 6 Section: Rough Carpentry (06 10 00), Finish Carpentry (06 20 00).
	2. Division 7 Section: Asphalt Shingles (07 31 10), Metal Shingles (07 31 30) Slate Shingles (07 31 50), Wood Shingles & Shakes (07 31 70) Roofing and Siding Panels (07 40 00), Metal Roof Panels (07 41 10)

*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 Conditions of the Contract and Division 1 Submittal Procedures Section.*

1.02 REFERENCES

*Specifier Note: List standards referenced in this section with all referenced designations and titles. Please note, this article does not require compliance with standards; however, the testing standards used are listed below.*

1. ASTM D5034: Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
2. ASTM E2178; Test Method for Air Permeance of Building Materials
3. ASTM E96: Standard Test Method for Water Vapor Transmission
4. ASTM D1970: Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice-Dam Protection
5. ICC AC48: Self-adhered Roof Underlayments for Use as Ice Barriers
	1. Section 4.4.1 Test method for water-ponding

1.03 SUBMITTALS

1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
2. Product Data: Submit manufacturer’s product data and installation instructions.
3. Samples: Submit selection and verification samples.
4. Closeout Submittals: Submit the following:
	1. Warranty documents specified herein.

*Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.*

1.04 QUALITY ASSURANCE

1. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

*Specifier Note: Retain paragraph below if mock-up is required.*

1. Mock-Ups: [Specify requirements for mock-up.].
	1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
	2. If mock-up is not retained, remove and properly dispose of mock-up.

*Specifier Note: Retain paragraph below if pre-installation meeting is required.*

1. Pre-installation Meetings: [Specify requirements for meeting.].

*Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.*

1.05 DELIVERY, STORAGE & HANDLING

1. General: Comply with Division 1 Product Requirement Section.
2. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
3. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

*Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.*

1.06 WARRANTY

1. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
2. 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.

*Specifier Note: Coordinate subparagraph below with manufacturer’s warranty requirements.*

1. Warranty Period and Enhanced Warranty options: see website
	1. [www.benjaminobdyke.com/resource-category/warranty/](http://www.benjaminobdyke.com/resource-category/warranty/)

**PART 2 PRODUCTS**

*Specifier Note: Retain article below for proprietary method specification. Add product attributes and 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 VAPOR PERMEABLE AIR BARRIER MATERIALS

*Specifier Note: Retain or delete paragraph(s) below per project requirements and specifier’s practice.*

1. Manufacturer: Benjamin Obdyke Incorporated.
2. Contact: 400 Babylon Road, Suite A, Horsham, PA 19044; Telephone: (800) 523-5261; E-mail: techsupport@obdyke.com; website: [www.benjaminobdyke.com](http://www.benjaminobdyke.com)
3. Proprietary Products/Systems: Vapor Permeable Air Barrier materials, including the following:
4. VaporDry™SA:
	1. General Characteristics
		* 1. Description: Tri-laminate, vapor permeable roofing underlayment with proprietary continuous acrylic adhesive on under side with release liner.
			2. Color: Gray
			3. Material: Polypropylene
			4. Width: 57 inches (1.45 m).
			5. Length: 80 feet (24.4 m).
			6. Thickness: 25 mil
			7. Weight: 28 lbs/roll
		1. Performance Characteristics
			1. UV Resistance: UV exposure for 120 days
			2. Tensile Strength: 120.6 lbf MD, 85.4 lbf CD, when tested in accordance with ASTM D5034
			3. Water Vapor Transmission: 14 perms, when tested in accordance with ASTM E 96.
			4. Air Penetration: 0.003 L/(s.m2) at 75 Pa, when tested in accordance with ASTM E2178.
			5. Nail Sealing: Pass, when tested in accordance with ASTM D1970.
			6. Water-ponding: Pass; 61 cm of water column for 48 hours when tested in accordance with ICC AC48 section 4.4.1
			7. Meets or exceeds the physical requirements of ASTM D226 (type II), D4869, and ICC AC48

*Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.*

2.02 PRODUCT SUBSTITUTIONS

1. Substitutions: No substitutions permitted.

*Specifier Note: Specify subordinate or secondary items that aid and assist primary products specified above or are necessary for preparation or installation of those items.*

2.03 ACCESSORIES

1. Provide the following accessories:
2. Flashing Option: HydroFlash® UV+ Self-Adhered Flashing
	1. Description: specially formulated self-adhered flashing for Benjamin Obdyke water resistive barriers. Continuous, breathable acrylic adhesive
	2. Vapor permeable: 4 perms
	3. UV Rating: 365 days before cladding application
	4. Material: black, unprinted polypropylene nonwoven film with acrylic adhesive.
	5. Width:[ 4; 6; 9] inches (101.6; 152.4; 228.6 mm)
	6. Length: 82 feet (25 m)
	7. Thickness: 16 mil
3. Roof Ventilation Mat: Cedar Breather® (for use with wood or metal roofing) [optional]
	1. Description: Rolled 3D matrix ventilation mat to provide drainage and ventilation beneath wood and metal roofing
	2. Material: Nylon
	3. Roll Size: 39 inches W X 61.5 feet L
	4. Thickness: 0.285 inches
4. Ridge Vent: Rapid Ridge® 7 Ridge Vent (for use with wood roofing) [optional]
	1. Description: rolled, shingle-over ridge ventilation product
	2. Material: Nylon matrix with non-woven polyester fabric
	3. Roll size: 7” X 20ft. rolls
	4. Thickness: 0.625”
5. Fasteners:

*Specifier Note: Specify only blunt-tipped, ring shank stainless steel nails for any wood cladding product.*

* 1. Type: [Nails] [Blunt-tipped, ring shank stainless steel nails] [Staples].
	2. Material: Corrosion protected steel.
	3. Material Standard: [Specify material standard.].
	4. Manufacturer: [Acceptable to manufacturer of underlayment] [Specify manufacturer.].
	5. Size: Suitable for project application.
1. Adhesives/Sealants:
	1. [Acceptable to manufacturer of VaporDry™ SA] [Benjamin Obdyke].

**PART 3 EXECUTION**

*Specifier Note: Revise article below to suit project requirements and specifier’s practice.*

3.01 MANUFACTURER’S INSTRUCTIONS

1. Comply with the instructions and recommendations of the underlayment manufacturer.

*Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.*

3.02 EXAMINATION

1. Site Verification of Conditions:
	1. Verify that site conditions are acceptable for installation of the underlayment.
	2. Do not proceed with installation of rainscreen until unacceptable conditions are corrected.

*Specifier Note: Coordinate article below with manufacturer’s recommended installation requirements.*

3.03 INSTALLATION

1. Basic Installation
	1. [www.benjaminobdyke.com/resource-category/installation-instructions/](http://www.benjaminobdyke.com/resource-category/installation-instructions/)
2. Special Considerations for System Warranty Requirements: reference Part 1.6.B: see website
	1. [www.benjaminobdyke.com/resource-category/warranty/](http://www.benjaminobdyke.com/resource-category/warranty/)

*Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 1 Execution Requirements Section.*

3.04 PROTECTION

1. Protect installed work from damage due to subsequent construction activity on the site.

**END OF SECTION**