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# DUPONT™ ROOF PROTECTOR™

## SYNTHETIC UNDERLAYMENT INSTALLATION GUIDELINES

### INSTALLATION GUIDELINES ACCEPTABLE FOR USE WITH

- DuPont™ Roof Protector™

### SPECIFICATIONS

- DuPont™ Roof Protector™ is available in 10 square rolls: 42' x 286'/1.1m x 87.2m (83.0m<sup>2</sup>)
- DuPont™ Roof Protector™ is for use on roofs with slopes  $\geq 2:12$ .
- DuPont™ Roof Protector™ must be covered with the final roof cladding within Three (3) months.
- DuPont™ Roof Protector™ should not be considered a final roofing system/primary water barrier.
- DuPont™ Roof Protector™ is a secondary layer applied over sheathing under a primary roofing system (asphalt shingles or metal roof cladding).

### BUILDING CODE COMPLIANCE

- Consult local building code and roof cladding manufacturer for use of underlayment.
- Consult local building code and roof cladding manufacturer for underlayment edge and end overlap and fastening requirements that may differ from DuPont™ Roof Protector™ instructions. Follow the more restrictive requirements.
- Where required by local building code, apply self-adhering waterproof underlayment as required by code according to manufacturer's instructions and DuPont™ Roof Protector™ for successive courses.
- DuPont™ Roof Protector™ provides protection against leaks under all types of roof coverings identified by ICC-ES AC108.
- DuPont™ Roof Protector™ meets or exceeds the following code criteria and test protocols:
  - AC108
  - ASTM D226 types I & II
  - ASTM E108
  - CAN/CSA A123.3
  - CAN/CSA A220.1 (coming soon)
  - Intertek CORR-1087

### PRECAUTIONS AND SAFETY

- Apply DuPont™ Roof Protector™ taut and wrinkle-free. Do not stretch.
- Do not apply DuPont™ Roof Protector™ over wet or frost-covered roof sheathing.
- Caution should be taken when walking on DuPont™ Roof Protector™ until it has been fastened according to instructions.
- Caution should be taken when walking on DuPont™ Roof Protector™ when it is wet or frost-covered.
- Use fall protection when working on roof. Refer to OSHA safety regulations 29 CFR 1926 subpart M.
- Consult your local DuPont™ Tyvek® Specialist for additional information.
- Gloves are recommended when handling DuPont™ Roof Protector™. Repeated contact to skin may cause skin irritation due to the roughness of the material. The product should not make contact with eyes as it may cause irritation.

### PREPARATION

- Apply DuPont™ Roof Protector™ over a dry, smooth, clean and defect-free roof deck. DuPont™ Roof Protector™ cannot be installed over existing roof cladding.
- DuPont™ Roof Protector™ is a vapor barrier. Ensure that the space beneath the roof sheathing is properly ventilated before installing to avoid condensation problems.

### INSTALLATION INSTRUCTIONS

- Lay courses of DuPont™ Roof Protector™ horizontally in "shingle style" fashion following the lap lines provided in 4" course overlaps and 6" end laps beginning along the eave edge. Offset end laps in successive courses by 6 feet.
- When attaching DuPont™ Roof Protector™ to the roof sheathing:
  - When used under asphalt shingles, and metal roof cladding, 1" diameter (min) metal or plastic (ring shank or smooth shank) cap-nails or cap-staples are required.
  - When used under asphalt or metal roof cladding, 1" diameter (min) metal or plastic cap-nails or cap-staples are recommended. Un-capped staples or standard roofing nails may be used if shingles are installed within 36 hours (unless rain or high winds are expected). Use of un-capped fasteners may result in a risk of blow off or leakage around the fastener penetrations during a wind or rain event.
  - All anchoring must be performed flush to the roof and 90 degrees to the roof deck.
- Install fasteners 12" on center (o.c) along course and end over-laps and a single row 24" on center along the middle line of the field. Use the printed pattern as a guide.
- In high wind zones (at or above 100 mph per IRC R301.2), fasteners must be installed at all printed locations on the DuPont™ Roof Protector™. It must be fastened using corrosion-resistant metal or plastic cap nails with a head diameter of at least 1" and a thickness of at least 32-gauge sheet metal. The cap-nail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing of a minimum of ¼ inch into the roof sheathing.
- Apply DuPont™ Roof Protector™ with two layers on roofs with slopes between 2:12 and up to 4:12. Begin with a 26" undercourse strip parallel to the eave edge, and then cover with a full width sheet. Overlap successive sheets by 26".
- Install DuPont™ Roof Protector™ over drip edges along eave edge and under drip edges along rake edges.
- Lap DuPont™ Roof Protector™ 6" (min) onto walls.
- Line roof valleys with a sheet of DuPont™ Roof Protector™ prior to installing horizontal courses of DuPont™ Roof Protector™. Lap the ends of horizontal DuPont™ Roof Protector™ courses over the valley sheet by 6".
- At ridges and hips where ridge vents will not be applied, cross-lap DuPont™ Roof Protector™ from one roof plane onto the other by 6". For additional weather protection, apply a 24" wide sheet of DuPont™ Roof Protector™ across hips and ridges.

### WARRANTY

DuPont™ Roof Protector™ is covered by a 20-year limited product replacement warranty.

## Radius Calculator

CHORD LENGTH

HEIGHT

ARC LENGTH

**HS** Fire Safety and Counterfeit Products





Exploring Four-Handed Delivery and Retention of Resin-Based Sealants published in the March 2008 issue of the Journal of the American Dental Association, reports that for sealants to work, they must stay in place or be retained on the tooth. The Association of State and Territorial Dental Directors (ASTDD) Best Practice Approach: School-based Dental Sealant Programs PDF-468K external icon report reviews the scientific evidence that school sealant programs work and presents specific examples of practices in state programs. The clinician should not use an explorer under force. Provide sealants to children even if follow-up examinations for every child cannot be guaranteed. This systematic review includes studies of resin-based and glass ionomer sealants compared to no sealant and compared to each other. Methods to assess decay. Dental Sealants: Proven to Prevent Tooth Decay external icon is a report, published by the Children's Dental Health Project that used research funded by CDC to explore the factors that shape school sealant programs' ability to reach more children in effective, sustainable ways. Additional Resources The 2017 Cochrane review, Pit and fissure sealants for preventing dental decay in permanent teeth external icon, evaluates the effectiveness of different types of fissure dental sealants in preventing cavities in the permanent teeth of children and adolescents. Have an assistant help the dental professional place sealants when resources allow. Oral Health in America: A Report of the Surgeon General PDF 4.7 MB external icon is a US Surgeon General's report that was the first to focus on oral health and provides an overview on effectiveness of sealants and public health strategies to provide sealants to children in community settings. The report was published using data from a series of surveys and interviews with stakeholders across the country. On the basis of these tests, the following recommendations are offered for school programs professionals: seal all the sealing and fissure dentures that are sound or have early caries, prioritizing permanent and second molars. Workshop on guidelines for the use of sealants: External recommendations published in The Journal of Public Health Dentistry, offers recommendations for the use of dental sealers in clinical practice and school sealant programs. A workshop convened by the Association of State and Territorial Dentists, the New York State Department of Health, the Health Department of Ohio, and the School of Public Health, University of Albany, State University of New York. This review reports their findings on the efficiency and retention of four different types of sealant material. published at the April 2009 of Journal of the American Dental Association, Sample That teeth with total or partially lost sealants did not have a greater risk of developing a cavity than the teeth that were never sealed. The recommendation ES was elaborated by a Working Group of CDC experts in prevention and treatment of cavities, oral epidemiology and evidence-based revisions. published at the July 2010 number 2010 of Journal of the American Dental Association, says that The authors conclude that the visual exam is appropriate and suitable for the evaluation of the caries before placing sealants. The effect of dental sealants on the levels of bacteria in caries injuries: A Review of the Evidence, "External icon" published in the March 2008 of the Journal of The American Dental Association, it is a study that shows that the sealed dental caries reduces the number of bacteria in the cavity at least 100 times. 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