



TECHNICAL DATA SHEET
Pro-Grade[®] 285
(formerly PE108)
Acrylic Elastomeric Coating

Physical Property	Typical Value	Test Method
Appearance	White, fluid	-
Elongation, Initial	>240%	ASTM D2370
Elongation, after 1000 Hours Aging	>155%	ASTM D2370
Flash Point	Non-flammable	-
Fungi Resistance	Zero Rating	ASTM G21
Low Temperature Flexibility, after 1000 Hours Aging	PASS, No Cracking or Checking	ASTM D6083
pH	9.0	-
Solar Reflectance, Initial	0.86*	ASTM C1549
Solar Reflectance, 3 Yr.	0.69*	ASTM C1549
Solar Reflectance Value (SRI), Initial	109*	ASTM E1980
Solids Content by Volume	>58-62%	ASTM D2697
Tear Resistance	>80 lbf/in	ASTM D624
Tensile Strength, Initial	>270 psi	ASTM D2370
Thermal Emittance, Initial	0.90*	ASTM C1549
Thermal Emittance, 3 Yr.	0.91*	ASTM C1549
Viscosity (Brookfield)	30,000-40,000 cPs	ASTM D2196
VOC Content (maximum)	50 g/l	EPA Method 24
Water Swelling, Mass %	<20%	ASTM D471
Water Vapor Permeance	<50 perms	ASTM E96
Weight per Gallon	11.3-11.7 lbs.	ASTM D1475

* Applies to Pro-Grade[®] 285 *White* only

Approvals and Certifications

- Meets ASTM D 6083 - Standard Specification for Liquid Applied Acrylic Coating Used in Roofing
- ENERGY STAR[®] certified
- Meets the requirements of California Energy Commission (CEC) Title 24 Section 118(i)3
- Cool Roof Rating Council (CRRC) listed
- FM Approved
- UL Approved as a component within Class "A" and "B" fire rated roof coverings
- Meets ICC-ES-ESR-2132

Description

Pro-Grade[®] 285 is an exceptional quality, elastomeric coating, specially formulated to coat over spray polyurethane foam roofing. Made with premium 100% acrylic resin, it offers premium performance compared to other coatings made with styrene acrylic resins.

Product Size

55 GALLON

Colors

Standard: White, Light Gray, Dark Gray, Tan

Usage

Pro-Grade[®] 285 Fast Set is used as a protective surfacing coating for new and previously coated polyurethane foam roofs.

Pro-Grade® 285 Acrylic Elastomeric Coating

Application

Refer to Guide Specifications for detailed application information. For previously coated substrates, apply a test patch of **Pro-Grade® 285 Fast Set** coating and check for positive adhesion prior to coating roof.

Clean: Surface must be clean and in good repair. Sweep and power wash area to remove all dust, dirt, loose granules, and residues. Scrub areas where water ponds with detergent and water, and rinse well.

Repair: Carefully inspect area to be coated, including around pipes, chimneys, equipment, roof edges and walls. Repair all cracks, breaks, splits and holes by embedding **Henry 296 ElastoTape®** between 2 heavy coats of **Henry 289 White Roof Sealant** at least 3 inches beyond repair. Allow to completely cure. **Henry 289** can usually be coated within a couple hours, after the surface forms a skin which will accept the coating.

NOTE: Roofs must have proper drainage and not pond water. For older, low-slope roofs where depressions pond water for more than 48 hours, it is recommended to provide positive slope in those areas and eliminate ponding. Consultation with building code officials and insurance agency personnel before application is recommended.

Apply: Choose a warm, sunny day – the roof surface should be warm to the touch. If the roof surface is too hot to touch (140°F+), it is too hot to coat. Apply to a clean, dry surface. Do not dilute. Stir coating to a uniform consistency, and apply by heavy-duty spray, deep-pile paint roller, or 4-knot brush. Back-roll coating when sprayed. When applied by brush or roller, keep strokes in one direction. The coating is water based and requires complete evaporation of water to cure. The coating should not be employed if climate condition will prohibit cure. Application in the late afternoon with a high probability of overnight moisture condensation is to be avoided. Schedule work so that the coating can dry before nightfall. Allow to dry thoroughly between coats. Apply each additional coat in a perpendicular direction to the previous coat. Recommended spray application settings are 1000-1500psi, 1.0-2.0GPM with a suggested tip size of .030-.040. Pressure requirements will vary based on temperature and hose size.

Service Temperature Range: -20°F to 160°F (-29°C to 71°C)

Drying Time at 24 wet mils @ 77°F (25°C) and 50% R.H.:

Dry to Touch	4 hours	ASTM D1640-69, 5.4
Dry Through	12 hours	ASTM D1640-69, 5.6
Dry-to-Recoat	12-24 hours	ASTM D1640-69, 5.7

Coverage

Minimum coating coverage is 3.0 gallons/square to be applied in two coats at a maximum of 1.5 gallons/square. Additional coats at a maximum of 1.5 gallons/square may be applied. Apply each coat in a perpendicular direction to the previous coat. Application rates should be adjusted to meet each particular roof's specified requirements. Coverage rates are theoretical and do not take into account material loss due to spraying, surface texture, etc. Thicker dry film results in better performance and longer coating life.

- For Henry Gold Seal Warranty, see appropriate Henry Restoration System (HRS) Guide Specifications coating coverage rate requirements by substrate and duration.
- For Material Plus Warranty, see above-listed minimum coverage requirements. Condition of the polyurethane foam roof dictates the applicable warranty term.

Clean-up

Before coating dries, clean tools, spillage, etc., with warm soapy water. If coating has dried, soften the dried film on tools with paint thinner then scrape clean. When using paint thinner, exercise safe practices concerning flammability and toxicity. Clean hands with waterless hand cleaner.

Precautions

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Before handling, read the Safety Data Sheet for protective equipment and additional safety, health, and environmental information.

**KEEP OUT OF REACH OF CHILDREN.
FOR EXTERIOR USE ONLY.
PLEASE READ THE ENTIRE LABEL.**

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DO NOT APPLY IF THERE IS A THREAT OF RAIN, FOG, DEW, OR TEMPERATURES BELOW 50°F WITHIN 48-72 HOURS. Do not heat container or store at temperatures greater than 120°F. When transporting, make sure the pail is secured and the lid is tight. Do not allow pail to tumble as this may loosen the lid and allow leakage to occur. DO NOT ALLOW COATING IN PAIL TO FREEZE. This coating is not recommended over walking decks, over gravel, T.P.O., shingles of any kind, or old roofs that are too dry and brittle to withstand the shrinkage stresses that occur after the application of any coating.

Prevention: Wash thoroughly after handling. Avoid breathing mists and sprays. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs; Get medical advice or attention. Take off contaminated clothing and wash it before reuse. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; Get medical advice or attention. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Storage: Store in a well-ventilated place. Store locked up.

Disposal: Dispose of contents/containers in accordance with local/regional/national/international regulations.

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, and/or birth defects, or other reproductive harm.

Employers should obtain a copy of the **Safety Data Sheet (SDS)** from your supplier or at the toll free number below.

Limited Product Warranty and Liability Disclaimer

Many factors affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – and these are all beyond our control. We, the manufacturer, warrant only that we will replace, at no charge, any product proved to have a material defect in original manufacturing within 12-months of purchase, provided the product has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF CONDITIONS/WARRANTIES AND LIMITATION OF LIABILITY:** THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER CONDITIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS, ANY DELAYS CAUSED BY REPLACEMENT, OR OTHERWISE BEYOND PRODUCT REPLACEMENT. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN ALL CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND WITHIN 30-DAYS OF PURCHASE. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY, FROM ANYONE, FOR ANYTHING RELATING TO THE PRODUCT. To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied conditions or warranties is limited to the duration of Henry's express warranty.

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