

SMARTCOAT™ 400 HIGH PERFORMANCE ACRYLIC COATING

WHITE

Product Information



Description & Use: SMARTCOAT™ 400 High Performance Acrylic Coating is a high solids, heavy bodied elastomeric roof coating manufactured with 100% acrylic-based polymers, reflective white pigments and high-grade biocides. SMARTCOAT 400 remains bright white after weathering and delivers extremely high thermal and IR resistance with a 0.91 emissivity rating. This product achieves excellent bond strength to all common roof substrates including metal, single-ply, built-up and modified bitumen roofs. SMARTCOAT 400 has extremely high elastomeric properties, making it a tough, durable solution to seal roof surfaces in all North American climates, prolong roof service life and reduce interior building temperatures and associated cooling costs. SMARTCOAT 400 is formulated to exceed the parameters of ASTM D 6083, Type I.

Coverage: 1.5 gallon per 100 square feet per coat, minimum 3 gallons per 100 square feet in two coats.

Precautions: DO NOT APPLY TO FLAT SURFACES WITH POOR DRAINAGE OR WHERE PONDING WATER WILL EXIST. SMARTCOAT 400 is not recommended over gravel, over walking decks, or old roofs that are too brittle and dry.

Product Application

1. Clean roof surface thoroughly with SMARTCOAT 100 Roof Wash. Surface must be free of dirt, dust, oil, grease, wax, rust, chalky or loose paint, mildew and any other surface contamination that may inhibit adhesion. Use wire brush to remove rust and scale from metal. Surface must be clean and dry, free of moisture both on and beneath the surface before applying SMARTCOAT PRIMER, MASTIC (if applicable) or COATING.
2. If adhesion test indicates primer is required, prime surface with SMARTCOAT 210 Universal Primer. When applying on a smooth or granulated modified bitumen or built-up-roof, though most granulated surfaces do not require primer for adhesion, SMARTCOAT 200 Asphalt Bleed Blocker will serve prevent top-surface yellowing from migrating bituminous oils.
3. Carefully inspect entire roof and seal/repair all holes, cracks, tears or breaks with SMARTCOAT 300/301/370 Mastic/Sealant prior to coating. SMARTCOAT 300/301/370 can usually be coated within 24-36 hours. If solvent-based roofing cement is used to repair, it must cure for 30 days to avoid any bleed through.
4. Mechanically mix COATING before using. Apply only at temperatures between 50°F and 110°F and no threat of rain for 48-72 hours. Apply on warm, sunny days, preferably in the morning hours to provide maximum cure time.
5. Apply SMARTCOAT 400 at a rate of 1.5 gallons (24 wet mils) per 100 square feet. Allow coating to dry, a minimum of 4 hours, then apply second coat at a rate of 1.5 gallons per 100 square feet. For best results, apply coating in a two coat, cross hatch manner; the first application is at a right angle to the second application. Apply with a heavy-duty roller or suitable spray equipment*. Spray application is preferred as it will yield a smoother surface that will be less likely to pick up dirt.
6. Clean tools with mineral spirits or paint thinner, if coating has dried. If coating is still wet, clean up with warm soapy water. Cleanup of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or Rule 66 Mineral Spirits. SMARTCOAT 400 should not be left in spray guns, pump equipment and/or hoses for prolonged periods.

* Due to the viscosity of the material, a high-pressure airless paint pump capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for pump pressure. Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a- clean spray tip, having a minimum orifice of .030 and a 50° fan tip. DO NOT USE hose that has been used for silicones coatings.



For more information, see published SMARTCOAT specifications at www.certainteed.com

Technical Data

Color	White, Tan
Packaging	5G, 55G, 275G
Maximum VOC	49g/l
Solar Reflectivity (Initial/Aged)	0.86/0.69
Thermal Emissivity (Initial/Aged)	0.88/0.91
Tack-Free	4-8 hours
Full Cure	24-48 hours
Tensile Strength	224 psi
Elongation	130%
Tear Resistance	71 lbf/in
Solids by Volume	51%
Solids by Weight	64%

Storage & Disposal: Store in cool, dry conditions in well-sealed receptacles, max storage temperature 100.4°F. DO NOT ALLOW PRODUCT TO FREEZE. Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. No smoking. Shelf life is 1 year from date of manufacture. Dispose of contents/container in accordance with local/regional/national/international regulations.

For more information, refer to the Safety Data Sheet at www.certainteed.com

First Aid

CAUTION: Close container after each use. IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. In case of fire use CO₂, extinguishing powder or water spray.

Technical Assistance and Services

CertainTeed provides technical assistance in the product selection, specification and application guidelines for all CertainTeed commercial roof systems. Field representatives are available for consultation in each region.

For more information, contact CertainTeed Commercial Roofing Technical Services at 800-396-8134 ext. 2 or rpg@saint-gobain.com

Warranties

CertainTeed offers SMARTCOAT Limited Warranties, SMARTCOAT NDL Limited Warranties and CertainTeed Integrity Roof System Limited Warranty/NDL Limited Warranty SMARTCOAT Extensions, ranging from ten (10) to twenty (20) years to SMARTCOAT Approved Applicators and Silver/Gold Star Contractors.

For more details, please see the SMARTCOAT Warranty Overview on www.certainteed.com

NOTICE TO CUSTOMER: FOR PROFESSIONAL USE ONLY/DO NOT THIN. WE WILL NOT ASSUME ANY LIABILITY FOR THE RESULTS OF CUSTOMER'S USE OR A CUSTOMER'S INABILITY TO PROPERLY USE OR APPLY THIS PRODUCT. CERTAINTEED WILL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. CONTACT CERTAINTEED FOR ALL DETAILS OF LIMITED WARRANTY COVERAGE, AS THIS IS THE EXCLUSIVE WARRANTY FROM CERTAINTEED AND IN LIEU OF ANY AND ALL OTHER WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE AND FITNESS FOR A PARTICULAR PURPOSE.



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