

#203 HS BULLDOG HIGH SOLIDS SILICONE COATING



DESCRIPTION

Product Type: A ready-to-use, solvent-free, high-solids, single-component, moisture-cure fluid-applied silicone coating. Breathable membrane possessing superior weathering and water resistance characteristics. MEETS: ASTM D6694-08 and 07. SRI Value 110 initial. Passed: ASTM C1305 Crack Bridging Ability.

Recommended Uses: Provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single ply roof membranes, and sprayed in place urethane systems. Contact Palmer Asphalt Company for applicability for specific roof surfaces. This product is generally used as a protective coating over a variety of surfaces to protect and prolong the life of the underlying roof membrane. A pull test is recommended prior to use over specific roof membranes. When applied in white, this product will reduce roof temperatures that will result in energy cost savings in periods of high temperature where air conditioning is in use.

Product Limitations: Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, or directly over modified Bitumen, asphalt or coal tar built-up roofing systems without a sealer/primer.

Ponding Water: Palmer Asphalt does not cover damage due to ponding water.

•The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

CAUTION: SURFACE MAY BE SLIPPERY WHEN WET OR CURED

Read data sheet for skid resistance application. Please consult Palmer Asphalt Company's Technical Department for any specific questions regarding the application of this product.

Flammability Characteristics: Palmer Asphalt Company can provide a Class "A" Non-Combustible and Class "B" Combustible credentials as tested under UL 790 procedures over spray foam and single ply roofing systems through a third party partner.

D.O.T. Classification: Roof Coating, Not Regulated

HMIS Health 1, Flammability 0, Reactivity 0, Protection X

CONTAINER SIZE	APPROXIMATE SHIPPING WEIGHTS
50 Gallon Drum	565 POUNDS
5 Gallon Pail	56 POUNDS

TYPICAL PHYSICAL CHARACTERISTICS

Tensile Strength	307 PSI at 73°F ±20 / 484 PSI at 73°F ±20 (ASTM D-2370)
Elongation (break)	205% at 73°F ±20 / 306% at 0°F ±20 (ASTM D-2570)
Reflectivity (White)	.70 Aged 3 years (ASTM D-1549)
Emissivity (White)	.90 Aged 3 years (ASTM D-1371)
Permeability	9.3± (ASTM E-96, Procedure B)
Tensile, set at 100% Elongation	Nil.
Temperature Stability Range	-80°F to 350°F (-37°C to 177°C)
Water Absorption	0.1 weight % after two weeks at 75°F (24°C)..(ASTM D-471)
Weathering/UV Resistance	No degradation after 5,000 hours (ASTM D-6694)
Tear Resistance	(Die C), (lb f/in) 26 at 73°F (ASTM D-624)
Tack Free Time	1 hour Temp.&Humidity Dependent
VOC	<85 Grams/Liter EPA Method 24
Durometer Hardness	50+ 5 points (ASTM D-2240)Shore A
Solids Content By Weight	96% ±2(ASTM D-1644)
Solids Content By Volume	96% ±2(ASTM D-2697)
Maximum Continuous Service Temperature	185° F (85°C)
Flash Point	>290° F....(ASTM D-92)
Cure Time	Minimum 2 Hours @ 100° F and 90% Humidity Maximum 8 hours @ 40°F and 20% Humidity
Shelf Life (UNOPENED CONTAINERS)	1 year when stored between 35° F and 75°F)

APPLICATION PROCEDURES

DO NOT THIN

Surface Preparation: All surfaces MUST BE DRY and free of any contaminants prior to application. It is recommended that roof surfaces be power washed prior to the application of the coating.

Mixing Procedures: No thinning or reducing is necessary. Product may separate after shipping and storage, though it may still look mixed. When mixing becomes necessary we recommend the use of a 3/4 horsepower or larger air operated mixer with a blade capable of uniformly mixing the entire container. When product is in 5-gallon pails, use a 3" minimum diameter-mixing blade. When product is in drums, use a 6" minimum diameter-mixing blade. Containers are packaged with a layer of dry nitrogen, to keep latent moisture from prematurely starting the curing process. After opening a container, try to use it up as soon as possible, or reseal with a layer of dry nitrogen gas. Palmer Asphalt Company is not responsible for any material that cures in container.

Caution: DUE TO THE COMBUSTIBLE NATURE OF THIS PRODUCT, DO NOT USE AN ELECTRIC MIXER.

Weather Restrictions: It is not recommended that this product be applied at temperatures below 50° F. (10° C.), or if rain is expected within 2 hours of application.

Application Equipment: This product may be sprayed, brushed, or rolled. Due to the high 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 Acrylics or other waterborne coatings because the liner absorbs moisture and initiates the silicone cure process.

Application Procedures: This product may be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Subsequent coats should be applied within 24 or 48 hours of prior applications to insure full and uniform adhesion. Coating must be applied in 2 or 3 separate applications of contrasting colors, each applied at right angles to the previous coat. Coating must be evenly applied and pinhole-free.

Before applying a subsequent coat of this product the previous coat must be completely dry and cured. If any contamination of a thoroughly cured surface occurs, it must be washed with a chemical cleaner before applying subsequent coats. Coating must be extended beyond the substrate to create a self-terminating flashing.

Due to the bond agent present in all coating, colors may be used as either a base or a topcoat. The coating will cure in 2-6 hours, dependent on weather conditions (such as temperature and humidity), after which another coat can be applied. A #11 ceramic roofing granule may be installed in the topcoat to improve aesthetics, traffic resistance and impact resistance on foam surfaces. For skid resistance, apply a minimum of 30# of roofing granules per 100 square feet into uncured top coat.

Recoating Procedures - PUF ROOFS: This product may be used to re-coat existing spray-in-place roofing systems. Surface to receive re-coat must be thoroughly cleaned using power scrubber, pressure washer, chemical cleaners, or air wand. Surface must be completely dry before applying re-coat.

Rate of Application: Minimum application is 1 1/2 gallons per 100 square feet for a single coat depending upon surface to which it is applied. CONSULT PALMER ASPHALT TECHNICAL SERVICES for application rates for specific roof membranes and for job specific application specifications.

Safety Precautions: Keep coating material and cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks. Avoid breathing solvent vapors. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior use. Additional care must be taken to prevent roof top HVAC equipment from introducing evaporating solvent into interior areas during application. Building occupants should be warned of spray operations in process. Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery wet coating. Installers should read and understand all technical and informational literature on this product, including the SDS, prior to use of the product. - **NOT FOR SALE IN CALIFORNIA** -

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The typical characteristics shown for this product are based upon the average of test results conducted on the finished product and on the raw material components used. They are subject to production variations and may be changed without notice. All other information contained on this sheet is to be used as a guide. For proper use and application please observe instructions and cautions on container.

DISCLAIMER OF WARRANTIES . The application procedures and other information contained herein or on any other literature or on the labels of any of our products is intended to provide a guide for the general use, handling, and storage of products produced by Palmer Asphalt Company and is based upon ideas that are well tested and believed to be reliable. Palmer Asphalt Company hereby disclaims all warranties, either expressed or implied, since it cannot control workmanship, weather, quality of other materials used, and other variables that might affect the results. Liability under this warranty is limited to the replacement of our material or refund of its cost at our option. This Company does not authorize any agent or any representative to make any warranty.

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