

Bayblock™ SCM3402 SCM3404 SCM3405 SCM3408



Waterproof Protective Membrane
Silicone Coating
Technical Datasheet: 07/08/08

Product Description

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 are single component silicone materials specifically designed for use in roofing applications as the weather resistant coating on spray applied foam roofing systems.

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 can be specified for use with roofing granules in the top coat for added durability and weather resistance.

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 are identical products except for color. When applying in two or more coats it is advantageous to use alternating colors to assure uniformity of coverage.

Unique Properties

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 are one component materials requiring no mixing and can be applied by spray, roller, or brush. Fast cure rate, 15 to 30 minute skinover time provides adequate time for granule application. 1-2 hour tack free time assures adequate cure at the end of the application day.

The low spraying viscosity of Bayblock SCM3402/SCM3404/SCM3405/SCM3408 assures easy spraying with airless spray systems using a minimum 25:1 ratio air motor driven pump. Cracks and grooves fill easily. High static viscosity assures material stays where it is sprayed. The coating will not flow off high spots or vertical areas on parapets.

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 are VOC compliant. 200g/liter mineral spirits content assures compliance in most areas of California, greater New York City, New Jersey (verify compliance in location of use).

General Application Instructions

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 may be applied by medium nap rollers, brushes, or by conventional or airless spray equipment. Airless spray application is most efficient whereas rolling or brushing may be used for touch up, flashing and edge terminations or to fill voids, pinholes, holidays or cracks. CONTACT BAYSYSTEMS TECHNICAL SERVICE PERSONNEL FOR SPECIFIC RECOMMENDATIONS, PRICING AND AVAILABILITY OF SPRAY AND AUXILIARY EQUIPMENT. Apply Bayblock I only to clean, dry, sound surfaces, free of loose particles or other foreign matter. A primer may be required subject to type and/or condition of the substrate. Consult BaySystems Technical Service Personnel for specific primer recommendations and substrate preparation procedures. Apply only to roofs that have adequate positive drainage (i.e. a minimum slope of 1/8 inch per foot).

Care should be taken to avoid overspray. All overspray should be cleaned up immediately and before it has cured by wiping alternately with mineral spirits and dry rags. Cured material may have to be scraped off surfaces with a razor blade or scrubbed off with steel wool and mineral spirits. To control overspray, avoid spraying in high winds (above 15 mph) and/or mask all surfaces which are not to be coated.

Cleanup of equipment containing uncured material may be accomplished by flushing with mineral spirits. SCM3402/SCM3404/SCM3405/SCM3408 should not be left in pumping equipment and hoses for prolonged periods of time

It is recommended that Bayblock I be sprayed in multiple coats applied in multi-directional (north-south, east-west) passes to insure uniform film build and to avoid pinholing. Backrolling sprayed material may be necessary to fill pinholes in substrate. Final cured dry film thickness must be free of voids, pinholes, holidays, cracks or blisters. COATING APPLICATION SHOULD BE SUSPENDED IMMEDIATELY AND BAYSYSTEMS TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS OBTAINED ARE LESS THAN DESIRABLE.

Typical Physical Properties

Dry Properties	Test Method	Value
Tensile Strength:	ASTM D 412	200 psi
Elongation:	ASTM D 412	400%
Peel Strength:	WPSTM C 628	27 lbs/inch
Hardness (Shore A):	ASTM D 2240	32
Solids by Weight:		80%
Solids by Volume		65%
Weight per gallon:	WPSTM P 14	10.45 lbs.
Viscosity:	WPSTM C 560	9000 centipoise
Color:	Bayblock SCM3402	White
	Bayblock SCM3404	Medium Gray
	Bayblock SCM3405	Tan
	Bayblock SCM3408	Dark Gray

Wet Physical Characteristics

Shelf Life:	6 months if properly stored
Clean Up:	mineral spirits
Thinner:	Not Recommended

Product Reactivity

Skinover:	15-30 minutes
Tack Free Time:	1 - 2 hours
Recoat:	12 - 24 hours

"Cool Roof Rating Council" Rating

Initial Solar Reflectance - White	0.77
Aged Solar Reflectance (3yrs) - White	0.54
Initial Thermal Emittance - White	0.85
Aged Thermal Emittance (3yrs) - White	0.92

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Test values may vary depending on type of equipment, equipment settings and environmental conditions.

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Limitations and Precautions

PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store material at temperatures below 50°F. Apply Bayblock I when ambient air and substrate temperatures fall between 50-80°F or when there is a possibility of temperature dropping below 32°F within a 24-hour period after application. Lower temperatures will lengthen the skinover, tack free, and ultimate cure time. Higher temperatures will shorten the cure time and working time for proper application of granules before the material has skinned. Sudden temperature declines may also result in dew formation on surfaces which can prevent adhesion development. For best results, relative humidity should be above 20%. Lower humidity will slow the cure rate significantly.

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 may be applied directly over each other and over most other silicone roof coatings. When recoating older silicone coated roofs be sure the surface is clean, dry, structurally sound and that all holes and underlying damage has been properly repaired. The existing coating may have to be power washed with an appropriate surfactant solution then power rinsed to remove dirt. It is recommended that a test patch be cleaned and coated with SCM3404/SCM3408 to verify the effectiveness of the cleaning process and the adhesion to the surface prior to beginning the job.

Bayblock SCM3402/SCM3404/SCM3405/SCM3408 may be sprayed as received. Additional dilution with solvent is neither necessary nor desirable. On horizontal surfaces these materials may be sprayed easily in thicknesses up to 15 or 20 mils or more without flowing or alligatoring.

General Safety, Toxicity, Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CLEAN UP: Mineral Spirits

EYE PROTECTION: Chemical resistant goggles must be worn, chemical safety goggles in combination with a full face shield if a splash hazard exists

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application.

INGESTION: Do not take internally.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Disclaimer

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice.

The sole exclusive remedy of buyer, which is to have Bayer MaterialScience replace any nonconforming product at no cost to buyer, is conditioned upon buyer notifying Bayer MaterialScience or its distributor in writing of such defect within thirty days of the discovery of such defect. Bayer MaterialScience shall not be liable for any direct, incidental or consequential damages resulting from any breach of warranty.

Bayer MaterialScience has no role in the manufacture of this product other than to supply its two components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of plural component equipment. The quality and fitness of the product is dependent upon the proper processing parameters and application of the components by the applicator. There are no warranties that extend beyond the description on the face of this instrument. Bayer MaterialScience warrants only that the two components of this product shall conform to the technical specifications published in the product literature.

Bayer MaterialScience makes no warranty as to the quality of any product modified, supplemented, tinted, or altered in any way after it leaves the manufacturing plant. Bayer MaterialScience does not warrant that this product is suitable for use as a liner for potable water containers. Use of this product in a potable water container could be hazardous to health if it is improperly processed or applied.

The liability of Bayer MaterialScience for any nonconformity of this product to its technical specifications shall be limited to replacement of the product.

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