RC-1850

Silicone Seam Compound

RC 1850 silicone seam compound is a high performing sealant for protection of seam, penetrations, and fasteners

RC 1850 forms a durable, breathable and weatherproof roofing membrane that is highly resistant to degradation from UV and natural weathering

TYPE OF APPLICATIONS:

- Single Ply
- Modified bitumen
- BUR
- Foam
- Metal

SURFACE PREPARATION:

Surfaces to which RC-1850 seam compound is to be applied must be clean, dry, structurally sound, and free of loose particles, dirt, dust, oil, frost, mildew, and other contaminates. Damage to the underlying roof system, such as cracks, openings, holes, etc. Should be properly repaired prior to application. Saturated substrates must be removed and repaired appropriately.

Users of RC-1850 Seam Compound should verify that suitable adhesion can be attained to all existing roofing materials to be sealed prior to large scale application of the sealant. It is recommended that a test patch be cleaned and sealed with RC-1850 Seam Compound to verify the effectiveness of the cleaning method and adhesion to the surface(s).

RC-1850 Seam Compound Benefits

- **Silicone Durability** – Cured silicone rubber exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow.
- **VOC Compliant** – High solids solvent-free formulation and low Volatile Organic Compounds content.
- **Ease of Use** – Single-component material that can be applied with trowel, stiff brush or glove hand. Adequate open time provides sufficient time for tooling to applied area.
- **High Build Formulation** – Low sag.
- **Storage & Shelf Life** – RC 1850 Seam Sealant can be stored in unheated warehouses during the cooler months without the risk of freezing. Shelf life is 18 months from date of manufacture when properly stored.

Form: #1850-Seam Compound Revision:04/18

Packaging & Colors

RC-1850 Seam Compound is currently available in nominal 2 gallon plastic pails filled to 20 LBS - (9.08 KG).

Colors

RC-1850 Seam Compound is currently available in bright white.

Typical Physical Properties

Typical physical property values of RC-1850 Seam Compound is set forth in the tables below.

Typical Physical Properties

Property(1)	Value(2)	Test Method
Appearance	Bright White	Visual
VOC	~34 g/L	EPA Method 24
Application Rate	500-1000 g/min	E56
Specific Gravity	1.18-1.25	P15
Sag/Slump	1 inch (25 mm)	ASTM D2202
Skin-Over Time	5-10 minutes	WPSTM C-560
Tack Free Time	30-60 minutes	ASTM C679
Cure Time	3-4 days	¼" (6 mm) depth of cure
Hardness (A) Type Indenter	24	ASTM D2240
Ultimate Tensile Strength	220 psi (1.52 MPa)	ASTM D412
Tensile at 50% Elongation	52 psi (0.358 MPa)	ASTM D412
Tensile at 100% Elongation	86 psi (0.593 MPa)	ASTM D412
Ultimate Elongation	230%	ASTM D412
Joint Movement	±25%	ASTM C719
Low Temperature Flexibility	Pass	ASTM D522 (B)

(1) Properties tested @ 72°F (24°C), 50% RH

(2) Typical properties are average data and are not to be used as or to develop specifications.

HANDLING and STORAGE:

RC-1850 Seam Compound should be stored in unopened containers and protected from exposure to direct sunlight and high heat. Do not open containers until ready for use and store containers below 109°F (43°C) to maintain full shelf life. RC-1850 Seam Compound generally can be stored in unheated warehouses during the cooler months without the risk of freezing.

RC-1850 Seam Compound reacts with atmospheric moisture to cure. Once containers are open and exposed to the atmosphere, a skin will form on the material over time. The formation of skin will be negligible in winter months but can form quickly (minutes) under hot and humid summer conditions. Cured skin that has formed on the top of the material should be removed or screened. Take appropriate precautions to cover open containers during use.

RC-1850 Seam Compound should be applied as received and dilution with solvent is not recommended. If settling in the package has occurred, stir or shake the material prior to use.

Application Guidelines

Cured material can be removed from surfaces with a razor blade, or scrubbed off with steel wool or syntheticabrasive pads and solvent. Surfaces not intended for sealant should be masked or covered.

Apply RC-1850 Seam Compound to ensure a uniform build and thorough coverage.RC-1850 Seam Compound is typically applied in one application. If applying in multiple applications, allow adequate time between each application for the sealant to cure before applying additional material. Final cured thicknesses must be free of voids, pinholes, cracks or blisters

Granules: As an optional finish, granules may be installed into topcoat while it is still wet. Typical application rate is 40 pounds (18 kilograms) per 100 square feet (9.3 square meters). Contact the granule supplier or manufacturer for guidelines on suitable granule size and rate of granule coverage.

APPLICATION TEMPERATURE:

RC-1850 Seam Compound can be applied throughout the year as long as the substrates being sealed are completely dry. Frost and/or moisture will interfere with adhesion. Lower temperatures will lengthen the skin over, tack free and ultimate cure time and may require an overnight cure in winter months to allow the top coat application to proceed (film build may not be sufficient to allow walk over). Higher temperatures will accelerate the cure rate and decrease the open time of the sealant. Under summer conditions time to apply top coat over sealant may be as short as 1 hour. Do not apply RC-1850 Seam Compound when substrate surface temperatures exceed 176°F (80°C).

Application Equipment

RC-1850 Seam Compound can be applied by trowel, stiff brush or gloved hand. Cleanup of equipment containing uncured material may be accomplished by cleaning with mineral spirits or toluene.

DO NOT USE water or alcohol based solvents.