

RCS20

siliconized acrylic sealant

Product Description

RCS20 siliconized acrylic sealant is a premium quality, all-purpose siliconized acrylic latex gun grade sealant that can be used for interior and exterior caulking and sealing. It provides excellent adhesion to most construction surfaces with superior flexibility and is an excellent candidate for use in sealing seams, cracks and joints around doors, windows, woodwork, siding, flashing, air conditioners, baseboards and countertops. RCS20 siliconized acrylic sealant may be suitable for use as an acoustical sealant for reducing sound transmission in a wall system.

Typical Performance Properties

- **Excellent Adhesion** - bonds to most conventional substrates and finishes including: wood, metal, concrete, brick, plaster, masonry, drywall, glass and ceramic tile. Some applications may require a primer.
- **Superior Flexibility** - maintains an airtight seal and provides for reduced stresses in working joints.
- **Acoustical Performance** - when used properly, pigmented RCS20 siliconized acrylic sealant grades have shown to maintain a 43 STC (Sound Transmission Class) and a 32 OITC (Outdoor/Indoor Transportation Class) acoustical performance in a Wall System (ASTM E90 and C919).
- **Paintable** - may be painted with latex and oil based paints. For best results allow overnight for thorough drying before applying paints.
- **Trouble Free Installation** - vacuumized to remove microscopic air allowing for a smooth consistent application free of air voids.
- **Long-Term Service** - excellent color stability and resistance to ultraviolet rays and natural weathering.
- **Stable Consistency** - enhanced ability to tool in a variety of climates to horizontal and vertical surfaces without sagging.
- **Non-Staining** - does not stain nor discolor substrate surfaces.
- **Clean** - cured sealant resists mildew growth.
- **Industry Standards** - meets ASTM C834, Type C (clear) and Type OP (opaque colors), Grade -18°C.
- **Versatility with GE Acrylic Products** - compatible with all of GE branded acrylic coating products and systems.
- **Easy Clean-Up** - easy soap and water cleanup.

Momentive Performance Materials is an exclusive licensee of General Electric. Momentive Performance Materials provides versatile materials as the starting point for its creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications.

We are helping customers solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical

devices. From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



Exclusive
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Basic Uses

- RCS20 siliconized acrylic sealant is designed to provide water and weather protection by forming an airtight seal when used on interior and exterior surfaces. Can be used for caulking window and door frames, vinyl, steel, aluminum, plywood siding, drywall, baseboards, bathroom & kitchen fixtures, primed fiber cement siding and conventional stucco.
- RCS20 siliconized acrylic sealant can be used to patch non-structural cracks and joints on many common substrates, including: stucco, precast concrete, concrete block, brick and wood.
- RCS20 siliconized acrylic sealant is useful as an acoustical sealant in the construction of walls, windows, doors, ceilings and floors to reduce sound transmission in wall partitions to maintain specified STC and OITC values. Use it to seal all adjacent similar or dissimilar materials on both sides of partitions and walls, around electrical box cutouts, under tracks and around door frames and window perimeters.

Packaging

RCS20 siliconized acrylic sealant is available in 10.1 fl oz plastic caulking cartridges (12 cartridges per case) and 5-gallon plastic pails (18.9 L). When using, do not keep in direct sunlight for prolonged periods. KEEP FROM FREEZING. KEEP OUT OF REACH OF CHILDREN.

Colors

RCS20 siliconized acrylic sealant is available in the following standard colors. Custom colors are also available to match any system. Use the product designation:

Grade	Color
RCS20.01.	Clear
RCS20.02.	White
RCS20.03.	Black
RCS20.0315.	Almond
RCS20.0316.	Aluminum Stone
RCS20.0384.	Beige
RCS20.0385.	Tan
RCS20.299.	Limestone

Limitations

- Do not use for structural repairs.
- Not recommended for below grade or water immersion applications.
- Not to be used in applications where the surrounding materials will exceed sustained temperatures of 180°F.
- Do not expose to water or rain for at least 24 hours after application.
- Application is recommended when temperature of air and surface is 50°F (10°C) or above for a 24 hour period.
- Allow "new" concrete to cure for 30 days before applying. After 30 days, test for alkali presence. Do not apply if pH is above 10.
- Not recommended for application to bare steel that has not been protected with a rust inhibitive primer.
- Do not apply if relative humidity is above 90%.
- Not to be used in aquariums or applications where FDA compliance is necessary.
- Do not freeze.

Technical Services

Complete technical information and literature are available from Momentive Performance Materials.¹ Laboratory facilities and application engineering are available upon request from Momentive Performance Materials.¹ Any technical advice furnished by Momentive Performance Materials¹ or any representative of Momentive Performance Materials¹ concerning any use or application of any sealant is believed to be reliable but Momentive Performance Materials¹ makes no warranty, express or implied, of any use or application for which such advice is furnished.

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Specifications

Typical product data values should not be used as specifications. Assistance with specifications is available by contacting Momentive Performance Materials¹ at 1-800-255-8886.

Typical Physical or Performance Properties of Type OP (opaque) Sealants

Property	Value	Test Method
Weight per US gallon	13.42 ± 0.2 lbs	Lab Value
% Solids by Weight	82.00 ± 2%	Lab Value
% Solids by Volume	70.45 ± 1%	Lab Value
Extrusion Rate at 77°F	47 grams/second	ASTM C-731
Rheological Characteristics	Thixotropic	Observation
Consistency	Heavy Bodied	Observation
Odor	Slight Ammonia Odor	Subjective
Vehicle Type	Acrylic Terpolymer	–
pH (when packaged)	7.9 ± 0.2	Lab Value
Cured Appearance	Smooth	Observation
VOC	53.4 grams/liter	Calculated
Prime Pigment	Rutile Titanium Dioxide	Known
Freeze/Thaw Stability	5 Cycles	Lab Value
Shelf Life	1 year minimum	Lab Value
Service Temperature Range (once installed)	-10°F (-23°C) to 180°F (82°C)	–
Coverage at 3/16" Bead	50 linear feet	Calculated
Drying Time @ 75°F and 50% RH	24 hours	To Cure
% Elongation (to break)	325%	ASTM D-412
Slump	None	ASTM D-2202
Crack Resistance	Pass (unpainted)	Wood Channel 1/2" x 1/2"
Flexibility/90° @ -18°C (1/8" slab)	Pass (after 7 day cure at 122°F)	1" Mandrel on Aluminum

Applicable Standards

Meets or exceeds the requirements of the following specifications:

ASTM Specifications

- ASTM C834, Type C (clear) and Type OP (opaque colors), Grade -18°C.
- ASTM E90 and C919 - when used properly, pigmented RCS20 siliconized acrylic sealant grades have shown to maintain a 43 STC (Sound Transmission Class) and a 32 OITC (Outdoor/Indoor Transportation Class) acoustical performance in a Wall System.

Suggested References

In addition to the guidelines provided on this datasheet, Momentive Performance Materials¹ recommends that designers and users of RCS20 siliconized acrylic sealant familiarize themselves with the latest editions of following industry guidelines and best practices:

- 1.) ASTM C1193 Standard Guide for Use of Joint Sealants.
- 2.) ASTM C1472 Standard Guide for Calculating Movement and Other Effects When Establishing Sealant Joint Width.

Installation

Surface Preparation

- All surfaces must be firm, clean and sound and free of dirt, oil grease, efflorescence, mildew and loose material.
- To remove mildew, scrub with a solution of 3 heaping teaspoons of Trisodium Phosphate (TSP), 1 quart household bleach and 3 quarts of warm water (wear protective goggles and impervious gloves). Follow manufacturer's directions when working with cleaning solutions. Rinse thoroughly and allow to dry.
- Non-structural shrinkage cracks larger than 1/16" up to 1/4" must be treated and repaired accordingly.
- Use of a suitable latex or oil-based primer prior to application may be appropriate.

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Sealant Application

Backing Materials

In joints greater than 1/4", sealant depth should be controlled with a closed cell, non-gassing type backer-rod. Other caulks should not be used as backer rod or filler. Backer-rod should not be primed. Backer-rod should be slightly larger in diameter (25-50% greater - confirm with manufacturer of backer-rod per type selected) than the joint width. Care should be taken to ensure backer-rod is not punctured.

Backer-rod provides the following benefits:

- Control of the desired sealant depth.
- Creates a suitable formed joint cavity that allows for the desired hourglass sealant shape.
- Provides a firm backup which helps attain full wetting of the substrates when the sealant is tooled.
- Acts as a bond breaker to eliminate adhesion on the backside of a joint (*i.e.* avoids three-sided adhesion).

When the shallow depth of a joint does not permit the use of a backer-rod, a bond breaker tape (polyethylene) must be used to prevent three-sided adhesion.

Rubber backup materials may stain the sealant and are not recommended, unless tested and verified for compatibility.

Joint Size

It has been determined that a joint can open and close 3/32" between temperature extremes. Therefore, the joint width should be four times the 3/32" movement, or 3/8" minimum. The depth of the sealant should be 1/2 the width of the joint, with a maximum depth of 1/4". Movement should not exceed 12.5% of the minimum joint width.

Sealant Depth

To maintain recommended sealant depth, compress and roll backer-rod into joint channel without stretching lengthwise. The foam becomes an integral part of the joint, since sealant does not adhere, and no separate bond breaker is required.

Method of Application

- Cut nozzle at 45-degree angle to desired thickness of bead. Apply with standard caulking gun. Use steady pressure to completely fill joints. For neat appearance smooth bead with brush and cloth.
- For best results, cured beads should be between 1/8"-1/2" wide and 1/8-1/4" deep. **IMPORTANT:** Use backer-rod for cracks and seals deeper than 1/4".
- Remove excess material before cure with a moistened cloth. Clean all equipment immediately after use with warm, soapy water.
- Sealant may be painted over with latex and oil paints when dry.
- Do not apply sealant when rain is expected.

Coverage

A 10.1 fl oz sealant cartridge will yield approximately 50 linear feet of a 1/8" x 1/4" bead or 25 linear feet of a 1/4" x 1/4" bead.

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HANDLING AND SAFETY

Material Safety Data Sheets are available @ www.gesealants.com or, upon request, from a Momentive Performance Materials¹ representative. Similar information for solvents and other chemicals used with Momentive Performance Materials¹ products may be obtained from your suppliers.

Storage Conditions and Warranty Period

The warranty period is 12 months from date of shipment from Momentive Performance Materials¹ if stored in the original unopened container at 50°F to 80°F. It is recommended that all users of this material retain invoices or other documentation relating to delivery, and to manage their inventory on a FIRST IN / FIRST OUT basis.

Availability

Information on ordering can be obtained from Momentive Performance Materials,¹ Waterford, NY; the sales office nearest to you, or an authorized GE sealants' product distributor. For information regarding cost, contact your local distributor or territory manager. Our customer service number is 877-943-7325.

Government Requirement

Prior to considering use of a GE sealants' product in fulfilling any government requirement, please contact the Government and Trade Compliance office.

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Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials¹ representative. Use of other materials in conjunction with Momentive Performance Materials¹ products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Emergency Service

Momentive Performance Materials¹ maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC), Transport Canada (CANUTEC), and the Chemical Emergency Agency Service also maintain an around-the-clock emergency service for all chemical products:

Location	GE Branded Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CANUTEC: 613.996.6666 (collect) or CHEMTREC: 800.424.9300
Europe, Middle East, Africa	+32.(0)14.58.45.45 (Belgium)	CHEMTREC: +1-703.527.3887 (collect)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials ¹ at 518.233.2500	CHEMTREC: 800.424.9300

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

CUSTOMER SERVICE CENTERS

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• UA, Silanes and Specialty Coatings	T +1.800.334.4674	F +1.304.746.1623
• RTV's and Elastomers	T +1.800.332.3390	F +1.304.746.1623
• Consumer Sealants & Construction Sealants and Adhesives	T +1.877.943.7325	F +1.304.746.1654

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161-009-20E-GL
CDS: DataRCS20 (9/08)