

The following specification text has been prepared to assist design professionals in the preparation of a specification section incorporating SilPruf™ SCS9000 NB (non-bleeding and non-staining silicone sealant) used on a variety of materials for new or remedial weatherproofing applications.

Incorporate language from this specification into the relevant product Sections. Design professional is responsible for editing information to meet their Project requirements and coordinate with other specifications sections and Drawings.

SECTION 07 92 00

JOINT SEALANTS

Editor notes are included in hidden text to assist with product attributes and performance. As this is not a stand-alone specification section, insert final text into the following or similar relevant product Section:

07 92 00 - Joint Sealants

SCS9000 NB reduces or eliminates dirt pickup, surface streaking, and substrate staining.

SCS9000 NB is not recommended for structural glazing applications, underwater or in continuous contact with water, food contact applications, or when painting of cured sealant is desired. Contact Technical Services to confirm acceptability of substrate, application, and testing if necessary.

For assistance on the use of the products in this section, contact Momentive Performance Materials at 877-943-7325, or visit their website at www.siliconesforbuilding.com.

PART 1 - GENERAL

1.1 SUBMITTALS

Include the following into PART 1 of the material specification requiring SilPruf™ SCS9000 NB silicone sealant for submission of product data, samples, and test reports.

- A. Sealant Submittals:
 - 1. Product Data: Manufacturer's descriptive data and application instructions.
 - 2. Samples: Sealant samples [showing available colors.] [in specified color.]
 - 3. Laboratory Test Reports:
 - a. Sealant-Substrate adhesion testing.
 - b. Sealant compatibility testing.
 - c. Sealant manufacturer's recommendations.

1.2 WARRANTY

- A. Manufacturer's Warranty:
 - 1. Silicone Sealants: Up to twenty (20) year limited weatherseal warranty.

PART 2 – PRODUCTS

Insert the following into PART 2 of the material specification requiring SilPruf™ SCS9000 NB silicone sealant.

2.1 MATERIALS

- A. Joint Sealant, Silicone:
 - 1. Acceptable Product: Silpruf™ SCS9000 NB by Momentive Performance Materials (www.siliconeforbuilding.com). [Substitutions not permitted.] [Refer to Division 01 for Substitution Procedures.]
 - 2. Description: One component, medium modulus, neutral cure, 100 percent silicone sealant.

3. Physical characteristics:
 - a. Movement capability: Plus or minus 50 percent, tested to ASTM C719.
 - b. VOC content: 37 g/l, tested to ASTM D2369 or D2369 (modified).
 - c. Hardness: Type A indenter, 27±2 durometer tested to ASTM C661.
 - d. Ultimate tensile strength: 244 PSI (1.68 MPa), tested to ASTM D412.
 - e. Ultimate elongation: 629 percent, tested to ASTM D412.
 - f. Tear strength, die B: 30.8 PSI, tested to ASTM D624.
 - g. Peel strength: 36.8 PLI, tested to ASTM C794.
 - h. Service temperature range: Minus 55 to plus 250 degrees F (minus 48 to plus 121 degrees C).

Available in 8 standard colors. Select color below. Custom colors will be an additional charge.

4. Color: [White.] [Black.] [Limestone.] [Light Grey.] [Aluminum Gray.] [Dark Grey.] [Precast White.] [Bronze.] [Custom to be selected.] [As selected by Architect from manufacturer's standard colors.]

2.2 ACCESSORIES

SCS9000 NB sealant attains primerless adhesion to many commonly encountered construction materials. However, some materials with variable surface characteristics may require the use of a primer to help obtain durable long-term adhesion. Prior to use, make trial applications to check adhesion to the specific materials to be used on the Project.

- A. Primer: Type recommended by joint sealant manufacturer for specific substrate to receive joint sealant.

Insert the following into PART 3 of the material specification requiring SilPruf™ SCS9000 NB silicone sealant.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare surfaces to receive joint sealants in accordance with manufacturer's instructions.
- B. Ensure that joints are clean, dry, and sound prior to application of joint sealer.
- C. Perform cleaning within 1 to 2 hours of when sealant is to be applied.

Retain the following for substrates such as concrete, masonry, brick, stone, and other similar porous substrates.

- D. Porous Surfaces:
 1. Remove contaminants, impurities, and other adhesion inhibitors.
 2. Where necessary clean by wire brush, mechanical abrading, grinding, sanding, saw cutting, blast cleaning with sand or water, or combination of these methods.
 3. Remove dust and other loose particles using soft bristle brush or oil-free air blow.
 4. Clean polished stone surfaces and smooth sawn edges using solvent dampened rag.

Retain the following for substrates such as glass, metals, plastics, ceramics and other similar non-porous substrates.

- E. Non-Porous Surfaces:
 1. Clean surfaces by wiping with solvent applied with clean rag, then remove solvent with clean rags before it dries.
 2. Use solvent approved by surface manufacturer when cleaning coatings, paints, and plastics.

3.2 APPLICATION

- A. Apply sealant in accordance with manufacturer's instructions.
- B. Apply sealant in continuous operation, horizontally in one direction and vertically from bottom to top of joint.
- C. Apply positive pressure adequate to fill and seal joint.

- D. Tool or strike sealant using concave tool, applying light pressure to spread material against backup material and joint surfaces; ensure void-free application.

3.3 CLEANING

- A. Remove excess sealant from adjacent glass, metal, and plastic surfaces while still uncured.
- B. Allow sealant on porous surfaces to progress through initial cure, then remove by abrasion or other mechanical means.

END OF SECTION