



Technical Data Sheet

DOWSIL™ 714 Rollable Flashing

A one-component, flexible STPE (silyl-terminated polyether) hybrid flashing material that can be roller or brush applied to provide durable weatherproofing at window and door openings and other building transitions.

Features & Benefits

- Low VOC formulation
- Easily applied in all weather conditions (32°F (0°C)–110°F (43°C))
- Excellent unprimed adhesion on most common substrates
- No odor
- Solvent and isocyanate free
- Fast cure
- STPE

Composition

- Neutral-cure, one-part RTV based on STPE chemistry

Applications

- General purpose sealing for windows, doors, and penetration flashing applications as well as general sealing for transition details behind the exterior façade.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
ASTM C679	Tack Free Time	Hours	< 1
ASTM D412	Tensile Strength, Ultimate	psi	150
ASTM D412	Elongation	%	400
ASTM C661	Durometer Hardness, Shore A	Points	20
ASTM C794	Peel Strength	lbf/in	> 15
ASTM C1305	Crack Bridging		Pass
ASTM D1970	Water Penetration		Pass

1. ASTM: American Society for Testing and Materials

Preparation

The joint interface must be clean, dry, and frost free. Oils, loose mortar, laitance, form release agents, waterproofing, damp proofing, and other contaminants should be removed prior to application. A thorough wire brushing, grinding, sandblasting, or solvent cleaning may be required to expose clean, sound, virgin surface. For cast-in-place concrete, repair bug holes or other imperfections larger than 1/16" with a cementitious mortar. Static cracks larger than 1/16" must be repaired by suitable methods for the substrate before being coated with DOWSIL™ 714 Rollable Flashing. Moving cracks (such as 90° corners) should be stabilized or properly repaired for the expected movement prior to installation of DOWSIL™ 714 Rollable Flashing to prevent tearing of the coating due to excessive movement. DOWSIL™ Contractors Paintable Sealant should be used to detail moving and corner (transition) joints prior to application of the flashing material.

Application Method

Apply material as packaged. Product should not be diluted or altered. Using a low-speed drill and paddle, material should be mixed to a homogeneous consistency prior to use (typically 90–180 seconds). If a film is present on the surface it should be removed prior to mixing. Once opened, material should be used immediately.

Apply material with a 1/4" or 3/8" nap roller. Material should be applied to at least a 20–25 mil thickness in a continuous film free of pinholes. If pinholes or voids are present after application of the first coat due to substrate imperfections a second coat of material may be applied to assure continuity. Allow the material to cure (typically < 2 h) prior to installation of windows, doors, or other wall assembly components.

Application temperature is 32°F (0°C)–110°F (43°C). Product can be applied to frost-free surfaces at temperatures below 32°F (0°C), but curing will not initiate until temperature is above 32°F (0°C). Keeping the material in a warmer environment prior to use will help cure in these conditions. In low humidity environments material may take longer to cure.

Adhesion to and from adjacent materials should be tested prior to full installation.

The liquid flashing can be applied along the face of the rough opening. Limit the dimension to no more than 4". Per AAMA 714 guidelines, if there are concerns about applying stucco with sufficient wet-out pressure to tight or constrained dimensions, DOWSIL™ 714 Rollable Flashing can be cut back from the edge of the opening (typically 1 1/4"). Care should be taken to assure that flashing covers the entirety of the opening where the window/door will overlap. Use of mesh or silica sand (typically 2040) to enhance the wet-out of the stucco application is required for stucco adhesion. The sand should be applied after the application of the DOWSIL™ 714 Rollable Flashing and before the skin-over of the surface of the liquid flashing.

Priming

Commonly no primer is needed.

Cleaning

Immediately remove all excess sealant and smears adjacent to the joint with IPA or ketone-type solvents as work progresses.¹ Excess cured material can be cut or scraped away followed by cleaning with IPA or ketone-type solvents.

¹Follow solvent manufacturer's recommended safe handling instructions and applicable federal, state, and local regulations.

Typical Cure

- < 1 h Tack free time
- 20 mil coating through cure in < 2 h

Maintenance

Generally, no maintenance is required. If the material becomes damaged, replace the damaged portion.

**Approvals /
Certifications /
Specifications**

Meets the requirements of AAMA 714.

Colors

1 standard color – Gray

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and
Storage**

When stored at or between 40°F (4°C) and 80°F (27°C) in the original unopened containers, material has a usable life of 12 months from the date of manufacture. Refer to product packaging for “Use By” date.

**Packaging
Information**

Available in 2 gallon disposable plastic pails.

Limitations

Material should not be used:

- In structural applications;
- In below-grade applications;
- To surfaces that are continuously immersed in water;
- On building materials that bleed oils, plasticizers or solvents that may affect adhesion;
- To surfaces in direct or indirect contact with food or other food-grade applications; or
- May be fully exposed to UV and weather for up to 6 months before façade installation.

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health and
Environmental
Information**

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com, or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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