

# RAIN BUSTER®

# 485

Product Datasheet

## Ultra High Performance Hybrid Window & Door Sealant

- ▶ Window & Door Installation
- ▶ New Construction
- ▶ Production & Custom Homebuilding
- ▶ For Use with RainBuster Installation Procedures

RainBuster 485 is an ultra-high performance hybrid sealant that is part of the RainBuster Window Installation System. As part of the system, it is designed for use as the sealant component of any of our RainBuster window installation procedures. RainBuster 485 is formulated with the latest in sealant technology to provide long lasting leak preventing performance.

### Features:

- Provides Long Term Leak Prevention For a Permanent Watertight Seal
- High Performance Hybrid Formula for the Latest in Technology
- Superior Flexibility to Withstand Real World Joint Movement
- Outstanding Adhesion to Vinyl, Wood, Metals, and a Wide Range of Construction Surfaces
- Ultra-Low VOC: 20g/l
- Fast Skin (20 minutes) & Cure (24 hrs)
- Easy to Gun at Lower Temperatures
- Extremely Durable Once Cured - Ideal for Job Site Environments
- Non-Sag to Stay in Vertical Wall Joints

Meets or Exceeds, Conforms to:

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O\*. \*Refer to Substrates in Where to Use.
- AAMA 808.3 Exterior Perimeter Sealing Compound
- AAMA 713 for use with RainBuster flashing and procedures



Part of the RainBuster®  
**LEAK-FREE**  
Window Installation System

Plastic Cartridge

## Overview:

RainBuster 485 provides all the legendary RainBuster performance you need for long term window installation leak prevention. It conforms to the critical relevant testing standards, and has attributes including easy application, permanent flexibility, non-shrink, powerful adhesion, ultra-low VOC, and fast cure. RainBuster 485 provides high performance with the latest in sealant technology.

**Performance Standards:** ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O\*

\*Refer to Substrates in Where to Use • AAMA 808.3 Exterior Perimeter Sealing Compound • AAMA 713 for use with RainBuster flashing and procedures

**Packaging and Storage** Available in 300ml cartridges (24/case) and 591ml sausages (12/case) • Dispenses in standard 10oz cartridge and 20oz sausage caulking guns • Store in a cool, dry place below 80°F for maximum shelf life. Store the product sheltered from the elements, to prevent exposure to sun and moisture • Shelf life is 12 months from date of manufacture.

**Regulatory** VOC content: 20 g/l or 1.45% or 0.15 lbs/gal • Meets regulatory standards • AQMD and CARB Compliant

**Warranty** Standard RainBuster Limited Lifetime Product Warranty • Eligible for enhanced 30 Year RainBuster Leak-Free System Warranty



**Ideal Uses:** RainBuster 485 is ideal for use as a window & door installation sealant in new construction. Contact Top Industrial for installation procedures and support. Also ideal for general use where powerful adhesion and permanent flexibility is required.

**Appropriate Application Surfaces:** Vinyl, wood, fiberglass, most plastics including PVC, composites, stucco, brick, concrete, masonry, building paper, house wraps, weather resistive barriers, asphalt saturated building paper, synthetic house wrap, lath and plaster foams, metals including aluminum, steel, galvanized and varied alloys. Note: Compatible with RainBuster flashing when installed per RainBuster installation procedures. For information regarding general use with self-adhered asphalt-based flashings, see further detail on this datasheet.

## Application/How to Use:

Easy to apply with standard caulking guns. Application temperature range is 20°F to 120°F. For best results, condition product at approximately 70°F prior to use. If working below 40°F, make sure frost and ice are not present on the application surface. Do not apply over frost or ice as this will impede adhesion. Will adhere to damp surfaces. However, do not apply over standing water or any surface moisture that could prevent sufficient/uniform contact between sealant and applied surface, as this will impede adhesion. 300ml Cartridge Application: Cut tip at 45° angle. The location of the cut will determine the desired bead size. Puncture seal. Insert cartridge into 10oz caulking gun. 591ml Sausage Application: Cut the end of sausage and insert into sausage caulking gun. Cut caulking gun nozzle to desired bead size. Apply sealant to joint. When applying sealant for bedding of window mounting flanges, make sure minimum 3/8" beads line up with fastener holes. Sealant beads on surfaces, including mounting flanges, should be appropriately applied to create desired bead thickness – Do not apply by forcing nozzle down on surfaces, including flanges, which will result in thin ribbons rather than proper substantial beads. Apply sealant in continuous beads, and with uniform surface contact, to promote adhesion. Avoid overlapping of sealant to prevent air entrapment. Sealant skins in 20 minutes and cures in 24 hours. Use opened cartridges and sausages on the same day.



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## Ultra High Performance Hybrid Window & Door Sealant



Part of the **RainBuster**  
**LEAK-FREE**  
Window Installation System

- High Performance Products
- Installation Procedure Catalog
- Expert Training & Support
- 30 Year System Warranty

**RainBuster Leak-Free Window Installation System:** RainBuster 485 is part of the RainBuster Leak-Free Window Installation System. This system combines RainBuster Sealant / Flashing / Corners / Procedures and offers a 30 year parts and labor System Warranty.

### Additional Details:

**Preparation:** For the best adhesion results, all surfaces should be clean, dry, and free from dirt, dust, ice, frost, oils, release agents, water, old sealants, or other contaminants. Dust and loose particles should be blown off surface and out of joint.

**Field Pretest:** Due to the varied nature of construction substrates and environmental conditions, field test sealant on actual surfaces prior to beginning work. User must determine if results, including adhesion and applicability, are acceptable.

**Tooling:** If recommended by RainBuster installation procedure, or if necessary to promote adhesion, tool sealant with putty knife or similar tool. Tooling should be done within 10 minutes of application and before sealant skins. Tool with one continuous stroke and avoid removing or compromising desired sealant film thickness. The use of solvents, soaps, or other agents during the tooling process is not recommended, as it may compromise sealant curing and performance including adhesion.

**Clean Up:** Clean hands with citrus wipes. Clean tools with citrus wipes or commercially available solvents such as mineral spirits or acetone. If using solvent, follow all solvent manufacturer warnings and instructions. Before sealant is cured, it may be possible to remove unwanted sealant from surfaces. Once cured, sealant will be difficult to remove and must typically be abraded and removed by mechanical means.

**Joint Design:** This sealant is ideal for joints found in window installation, including bedding joints, lap joints, butt joints, and fillet joints. It is ideal and appropriate for all joints found in RainBuster window installation procedures. General joint design recommendations: Maximum expansion and contraction should not exceed +/-35%. Minimum recommended depth is 1/4", maximum recommended depth is 1/2". For joints 1/4" to 1/2" wide, the recommended depth equals the width. For widths greater than 1/2", the recommended depth is 1/2".

**Backing:** If a backing material is necessary, use closed cell polyurethane backer-rod or bond breaker tape to prevent three-sided adhesion and to control joint depth.

**Priming Prior To Application:** Generally, priming is not required. If sealant is to be applied to a material with unusual surface characteristics, or if field pretest is unacceptable, consult Top Industrial for primer recommendations.

**Application Over Pre-Painted Or Primed Surfaces:** Ideally for long term leak prevention, sealant should be applied to raw unpainted and unprimed surfaces. With pre-painted or primed surfaces, leak prevention often relies more on the performance properties of the paint or primer than the sealant. Paints and primers typically do not have the adhesive strength or flexibility of RainBuster sealant - Though sealant may adhere to a paint or primer, the paint or primer may pull away from raw substrate when subjected to joint movement.

**Painting Over Sealant:** Cured RainBuster 485 sealant may be painted with most industrial and commercial paints. Paint after sealant is skinned and cured. Apply paint a minimum of 24 hours after sealant application. High quality acrylic paints are recommended for the best results. Paint only when proper weather and temperature conditions exist as per paint manufacturer recommendations. Field pretest for suitability of paint and painting process is required.

**Use In Combination With Asphalt Based Self-Adhered Flashings** (SBS modified asphalt and bituminous adhesives): This sealant is designed for use with RainBuster self-adhered asphalt-based flashings, when used in accordance with RainBuster installation procedures. Contact Top Industrial for procedures. For general use when not following RainBuster procedures and when sealant is used in conjunction with other brand self-adhered asphalt-based flashings: Due to varied and unknown compatibility, minimize contact between sealant and asphalt-based adhesives. Do not apply adhesive side of flashing over sealant. Unlimited contact is acceptable with the permanent plastic-based facer film of self-adhered flashings, following flashing application.

**Maintenance Of Cured Sealant:** This sealant is designed for long term leak prevention. No maintenance should be needed. If sealant application permanently exposes sealant outside a wall structure, periodically review sealant for integrity. If repair of damaged sealant is required, remove sealant through cutting or abrasion. Clean surfaces of sealant and repair with an additional application of this sealant.

**Limitations:** Suitability for each intended use must be determined by the user, through review of this datasheet and an application pretest. • Not designed to replace mechanical fasteners. • Not for use where subjected to constant water immersion. • Do not apply over ice, frost, standing water, or anything that may prevent proper and uniform contact between sealant and applied surface/substrate. • Leak prevention may be compromised when sealant is applied to pre-painted or primed surfaces. See Application Over Pre-Painted Or Primed Surfaces for details. • When sealant is painted, user must determine suitability of paint. See Painting Over Sealant section for details. • When used with asphalt-based self-adhered flashings, user must determine suitability. See Use In Combination With Asphalt Based Self-Adhered Flashings section for details. • Avoid this sealant curing in the presence of, or in contact with, another uncured sealant product. This may prevent proper sealant cure. • Avoid sealant contact with solvents, including solvent cleaners, during cure as this may interfere with sealant's curing process.

**For Professional Use Only.** Review Safety Datasheet (SDS) and Product Datasheet prior to use.

**Precaution:** Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure to vapors. Use only with adequate ventilation. Wear protective clothing while handling. Wash thoroughly after handling. KEEP OUT OF REACH OF CHILDREN. See Safety Datasheet (SDS) and product labeling prior to use.

**Limited Lifetime Product Warranty:** Top Industrial, Inc. warrants this product to perform free of defects for a period of 100 years from the date of purchase. Upon proof of purchase, Top Industrial's sole liability, expressed or implied, shall be to replace product proven defective and is limited to the stated selling price. This warranty is not transferable from the original purchaser. In no event shall Top Industrial be liable for consequential or incidental damages, resulting from the use of its products.

**Eligible for Enhanced 30 Year RainBuster Leak-Free System Warranty:** When RainBuster 485 is used in combination with RainBuster Flashing and RainBuster recommended installation procedures, a 30 Year Parts & Labor warranty is provided. Contact Top Industrial for additional information.

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### Physical Properties

VOC Content	20 g/l
Skin Time	20 minutes
Cure Time	24 hours
Shrink	None
Sag	Non-Sag
Yellowing	None
Paintability	See Painting Section
Water Resistance	Excellent
Service Temperature Range (once cured)	-40°F to 158°F; intermittent up to 300°F
Self-Adhered Flashing Compatibility	Pass (with RainBuster flashing), AAMA 713

### Available Sizes

- 300ml Cartridges (24/case)
- 591ml Sausages (12/case)

### Typical Performance Characteristics

After 7 Days Cure at 77°F and 50% RH

Hardness (Shore A)	28, ASTM D2240
Elongation	615%, ASTM D412
Tensile Strength	180 psi, ASTM D412
UV Resistance	Excellent, ASTM C793
Adhesion in Peel	Pass, ASTM C794

73°F cure/ 73°F cycling

Joint Movement Capability	+/-35%, ASTM C719
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### Available Colors



White

### Approximate Linear Feet Per Cartridge ( Per Sausage )

BEAD WIDTH ▶		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
BEAD DEPTH	1/4"	24.4 (48.1)	16.3 (32.1)	12.2 (24.1)	-	-	-	-
	3/8"	-	10.8 (21.4)	8.1 (16.0)	6.5 (12.8)	5.4 (10.7)	-	-
	1/2"	-	-	6.1 (12.0)	4.9 (9.6)	4.1 (8.0)	3.5 (6.9)	3.1 (6.0)

