

DAVLIN RUBBER SEAL®

Technical Data Sheet | High Performance Waterproof Elastomeric Coating



TECHNICAL PRODUCT DATA

WATER-BASED | 0.6 PERMS | <50 g/L VOC | 800 PSI TENSILE | 10-YEAR MATERIAL WARRANTY

PRODUCT CHARACTERISTICS

RUBBER SEAL® is an ultra-tough, super-waterproofing, alkali-resistant, water-based copolymer elastomeric coating. It forms a seamless, flexible membrane with tenacious adhesion and is formulated to protect a wide variety of roof and building substrates.

Its high tensile strength, low permeance, UV resistance, and resistance to alkali, salts, and acidic environments provide durable waterproof protection in demanding conditions.

WATERPROOFING PERFORMANCE

RUBBER SEAL® creates a superior waterproofing membrane with a vapor permeance of 0.6 perms at 20 mils DFT. It minimizes problems in ponded areas, adheres tenaciously to the substrate, resists UV exposure, and withstands alkali, salt, and acidic environments.

RECOMMENDED USES

Roof repair and restoration | Gutter repair | Below-grade waterproofing | Foundation waterproofing | Fence post waterproofing | Basements | Anti-corrosion | Mobile home and RV roofs | Metal rust protection

MANUFACTURER INFORMATION

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Made in the USA | Designed by Davlin in California

WATERPROOF | FLEXIBLE | TENACIOUS

Water-based elastomeric coating for compatible roof and building surfaces

PRODUCT OVERVIEW

RUBBER SEAL® is a single-part, water-based copolymer elastomeric coating designed to waterproof and protect a variety of substrates. Its proprietary resin system produces a seamless, flexible, durable membrane with exceptional adhesion, weathering ability, and UV resistance.

The black coating cures by air drying and is formulated for coastal, temperate, humid, hot, and extreme alkaline environments.

SUITABLE SUBSTRATES

Concrete

Stucco

Masonry

Wood

Fabrics

Metal

Stone

Foam

Asphalt

Mod. Bit

Smooth BUR

Mineral BUR

Granulated

800 PSI
TENSILE
STRENGTH

1000%
ELONGATION

0.6
PERMS @ 20 MIL
DFT

52%±2
SOLIDS BY
VOLUME

<50 g/L
VOC

4-8 HR
RECOAT

WATER-BASED | HIGH ADHESION | UV RESISTANT | WATER CLEANUP

SYSTEM PERFORMANCE / ENVIRONMENT

Recommended finish: Sunshield Top Coat may be applied to further boost reflectance and help keep the surface clean. **RUBBER SEAL®** is lightweight, UV resistant, fast curing, and may be installed over existing roof systems where conditions permit. It is water-based for easy cleanup and low odor, contains low VOCs and no zinc additives, and is formulated to support cleaner runoff.

APPLICATION EQUIPMENT

Equipment: Changes in pressure, tip size, and equipment may be needed for proper spray characteristics.

Airless: Graco Bulldog Hydra Spray 30 or 45:1 pump with a 0.025-0.031 in. reversible fluid tip.

Conventional: Binks 11:1 Saturn pump or equivalent; 3/4 in. minimum material hose, 1/2 in. air hose, 50-75 psi air pressure, heavy mastic gun such as Binks 7E2 with 1/4 in. fluid tip or larger.

Brush or Roller: Suitable for waterborne coating. Multiple coats may be required to achieve specified DFT; roller nap varies by substrate, typically 3/4 in.

RUBBER SEAL

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The information, ratings, and opinions stated above are, to the best of our knowledge, accurate, representing the results of laboratory and field evaluation. It is the responsibility of the user to determine whether the product is suitable for the application. No warranty or guarantee as to results is hereby made or implied by Davlin Coatings LLC.

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PROPERTIES / SPECIFICATIONS*

Property	Test Method	Typical Value
Tensile strength	ASTM D2370, 1 in./min.	800 psi
Tensile elongation	ASTM D2370, 1 in./min.	1000% at break
Moisture vapor transmission	ASTM E96, Proc. B, 20 mils DFT	0.6 perms
Adhesion, concrete	ASTM D413	400 psi (substrate failure)
Salt-spray resistance	ASTM D1654	No rusting
Alkali resistance	Fed. Spec. TT-C-555B, GSA ex. 1	No effect
Heat stability	Fed. Std. 141 [6051], 160°F / 10 days	No viscosity change
Wind-driven rain >100 mph	Fed. Spec. TT-C-555B, 4.4.7	No weight gain
Ponded water resistance	-	No blisters / no film degradation
Service temperature	-	-32°F to 200°F
VOC	US EPA Reference Method 24	<50 g/L
Flash point	SETA	>215°F
Viscosity (Stormer K.U.)	ASTM D562	95-110 KU
Solids by volume	ASTM D2597	52% ±2
Solids by weight	ASTM D2369	51% ±2
Dry film thickness (DFT)	-	8.5 mils @ 100 ft²/gal
Recommended system DFT	-	16-48 mils total
Components	-	1
Curing mechanism	-	Air dry
Cleanup	-	Water
Shelf life	-	3 years if properly stored
Packaging	-	1, 5, 55, 275 gal
Availability	-	Shipped nationally & internationally
Drying time to re-coat	-	4-8 hrs dry through @ 70°F (21°C)
Application temperature	-	50-100°F (10-38°C)
Color	-	Black
Material warranty	-	10 years

COMPLIANCE / TEST METHOD NOTES

*Test methods and values are reproduced from the legacy Rubber Seal technical data sheet. System performance and application requirements should be verified against the project specification. Rubber Seal is a single-component, air-dry, water-based coating.

INSTALLATION / APPLICATION NOTES

WEATHER RESTRICTIONS

Do not apply below 50°F or during, nor 24 hours preceding, rain, fog, mist, or freezing temperatures. Protect from freezing during shipment and storage. Do not store below 50°F.

SURFACE PREPARATION

Remove contaminants and loose material including dust, dirt, oil, silicone, release agents, wax, mildew, salt deposits, heavy oxidation, and chalky or loose coating. Check the entire roof surface and power wash thoroughly.

MIXING PROCEDURES

Flush equipment with water before use. Stir Rubber Seal thoroughly until uniformly blended. Avoid excessive mixing to prevent air entrapment.

SPRAY & ROLLER APPLICATION

Apply a wet coat in even, parallel passes with 50% overlap to avoid holidays, bare areas, and pinholes. Cross-roll or spray at a right angle to the first pass. Back roll rough surfaces. Porous concrete may require more than one pass.

SYSTEM APPLICATION

Apply 1 coat at 1 gallon per 100 square feet for 8.5 mils DFT. Allow 4-8 hours to dry. Use the rule-of-thumb test before recoating. Apply second, third, and fourth coats per system specification. Granules may be broadcast into the final coat at 35-40 lb per 100 square feet.

SPECIAL THICK-COAT CAUTION

At 50-70°F, Rubber Seal may be applied in one thick coat of 24 wet mils at 1.5 gallons per 100 square feet. Do not apply thick layers above 70°F; rapid skinning can trap uncured material and cause blistering. Consult Davlin for special procedures above 110°F.

POLYESTER FABRIC APPLICATION

Rubber Seal dries quickly, especially in warm, windy weather. When applying polyester fabric, work in small areas so the coating remains wet enough to embed the sheets.

CLEANUP

Clean equipment immediately after use with water or water and detergent.

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