



Protective & Marine Coatings

DURA-PLATE® CHIMNEY SEAL

B93A00732

GRAY

Revised: April 12, 2021

PRODUCT INFORMATION

PRODUCT DESCRIPTION

DURA-PLATE CHIMNEY SEAL is a premium grade, UV stable, hybrid elastomeric product for chimney sealing that is both permanent and flexible. It provides a durable, weather resistant seal with excellent adhesion to a variety of substrates. Dura-Plate Chimney Seal provides protection against water infiltration and is recommended when movement from temperature changes or other factors are possible.

- Seamless, flexible and waterproof
- Bridges moving cracks
- Retains physical properties from -40°F - 200°F (-40°C - 93°C)
- Easy single component brush or knife application
- Suitable for application to concrete, brick, cast iron & steel
- Bridge up to 1/8" gaps/cracks

PRODUCT CHARACTERISTICS

Sheen:	Matte
Color:	Gray
Volume Solids:	100%
VOC:	0 g/L; 0 lb/gal
Viscosity:	72 (Brookfield), 33800 (Rheo)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	60.0 (1,500)	80.0 (2,000)
Dry mils (microns)	60.0 (1,500)	80.0 (2,000)
~Coverage sq ft/gal (m ² /L)	20 (0.5)	27 (0.6)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1604 (39)	

Drying Schedule:

Skin Time:	30-60 minutes
Full Cure:	24 hours

Drying time is temperature, humidity, and film thickness dependent.

Shelf Life:	12 months, unopened Store indoors at 70°F (21°C) to 90°F (32°C).
Flash Point:	499°F (259°C)
Reducer:	Do not thin
Clean Up:	Mineral Spirits

RECOMMENDED USES

Designed to seal gaps and aid in the prevention of ground water infiltration between the concrete chimney and cast-iron chimney ring. Excessive ground water infiltration may require polyurethane grout application prior to installation of the chimney seal. Provides a highly flexible membrane to prevent cracking due to movement & settling.

- Chimney sealing of manholes
- Not for immersion

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ASTM D4541	Cast Iron: 1835 psi
Adhesion	ASTM D7234	Concrete: 220 psi cohesive
Elongation at Break	ASTM D638	475%
	ASTM D412	732%
Hardness	ASTM D2240, Shore A	25
Modulus of Elasticity	ASTM D638	63 psi
Tensile Strength	ASTM D638	98 psi
	ASTM D412	115 psi
Water Absorption	ASTM D570	1.88%



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Concrete:			
1 ct.	Dura-Plate Chimney Seal	60.0-80.0 (1500-2000)	
Brick:			
1 ct.	Dura-Plate Chimney Seal	60.0-80.0 (1500-2000)	
Cast Iron / Steel:			
1 ct.	Dura-Plate Chimney Seal	60.0-80.0 (1500-2000)	

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry and in sound condition. Remove all oil, grease, dust, dirt, loose rust, loose or flaking coating, and all other foreign contaminants to ensure adequate adhesion. Stop active water flow using a suitable Sherwin-Williams recommended polyurethane injection grout prior to application of Chimney Seal.

Cast Iron:

- NAPF 500-03-01 Solvent Cleaning (Pre-Cleaning)
- NAPF 500-03-02 Hand Tool Cleaning (Minimum)
- NAPF 500-03-03 Power Tool Cleaning
- NAPF 500-03-05 Abrasive Blast Cleaning of Cast Iron Fittings #3- (Best Results)

Concrete, Masonry, & Brick:

SSPC-SP13/NACE 6 – High Pressure Water Cleaning - 5000-10,000 psi OR SSPC-SP CAB 1 Thorough Blast Cleaning of Concrete, surface profile - ICRI 310.2R, CSP 2-4

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 30°F (-1°C) minimum,
140°F (60°C) maximum
(air and surface)

Service temperatures are between -40°F and 200°F (-40-93°C).

Relative humidity: 85% maximum

All surfaces must be clean, dry, sound and frost-free. Surface must be completely dry prior to application.

KEEP PRODUCT FROM FREEZING.

ORDERING INFORMATION

Packaging: 2-gallon (256L)
Weight: 13.7 lbs/gal ; 1.6 Kg/L



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SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Cast Iron

Remove all oil and grease from surface by NAPF 500-03-01 Solvent Cleaning. Minimum surface preparation is NAPF 500-03-02 Hand Tool Cleaning. Enhanced results and lifecycle performance will be achieved with using better surface preparations methods. NAPF 500-03-03 Power Tool Cleaning will provide a better surface preparation to Hand Tool Cleaning and Abrasive Blast cleaning as per NAPF 500-03-05 Abrasive Blast Cleaning of Cast Iron Fittings #3 will provide the best results.

Concrete & Masonry

Refer to SSPC-SP13/NACE 6 High Pressure Water Cleaning (5000-10,000 psi), or SSPC-SP CAB 1 or ICRI No. 310.2R, CSP 2-4. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement, and hardeners. Fill bug holes, air pockets and other voids with the Sherwin-Williams recommended cementitious repair mortar or Steel-Seam FT910.

Brick

Refer to SSPC-SP13/NACE 6 High Pressure Water Cleaning (5000-10,000 psi). Remove all loose mortar and foreign material. Surface must dry, sound and be free of dust, dirt, loose cement and mortar and loose bricks. Fill voids and damaged or compromised mortar joints with a Sherwin-Williams recommended cementitious repair mortar or Steel-Seam FT910.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

ReductionDo not thin
Clean UpMineral Spirits

Brush.....high quality 4" Nylon/Polyester

Knife/Trowelhigh quality, broad

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Mineral Spirits. Clean tools immediately after use with Mineral Spirits. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

APPLICATION PROCEDURES

Mixing Instructions: Ensure material is homogenous in bucket.

Active Water Infiltration: Active water infiltration requires the flow to be stopped using the appropriate polyurethane injection grout as recommended by your Sherwin-Williams representative prior to the installation of Dura-Plate Chimney Seal.

Apply material to the recommended film thickness as detailed in the Recommended Spread Rate section.

PERFORMANCE TIPS

- Apply to surface straight from the bucket to avoid skinning
- Remove all loose and compromised concrete, mortar or bricks and repair as per surface preparation instructions
- Active water inflow & infiltration must be stopped using the appropriate Sherwin-Williams recommended polyurethane injection grout.
- For best results, apply material using a high quality 4" Nylon or Polyester brush and avoid over brushing
- When applying to an epoxy or polyurethane lining, ensure Dura-Plate Chimney Seal is applied within the lining recoat window. If the recoat window has been exceeded, scuff sand or abrade the surface and solvent wipe as per SSPC-SP1 prior to application.
- Dura-Plate Chimney Seal can be applied direct to properly prepared and dry concrete
- Apply material from the top of the cast iron frame approximately 8"-12" down the chimney cone/walls
- Work material into small, shallow gaps, cracks and joints using a brush, knife or small trowel ensuring gap/crack is fully filled and sealed
- Excessive gaps/cracks (<1/8") may require prefilling with a Sherwin-Williams recommended repair mortar or compound
- Application can be completed from outside the manhole structure
- One 2-gallon container will do multiple manhole chimneys depending on applied thickness and area. Seal container between uses to avoid skinning of material.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.