



# Protective & Marine Coatings

## EXPRESSCOTE® 150 CHEMICAL RESISTANT LINING WITH OPTI-CHECK OAP TECHNOLOGY

PART A  
PART B

B62-150  
B62V150

SERIES  
HARDENER

Revised: October 17, 2018

### PRODUCT INFORMATION

TRM.34

#### PRODUCT DESCRIPTION

**EXPRESSCOTE 150** is a ceramic filled, epoxy novolac lining engineered to protect concrete and steel tank interiors from chemicals and corrosive environments at ambient and elevated temperatures. It provides rapid return to service, high film build, and edge retentive protection compared to conventional epoxies.

- Fast return to service
- One coat protection
- Edge Retention > 70%
- Designed for plural-component application equipment
- No crystalline silica, toxic metals or asbestos-form minerals
- Product contains Opti-Check OAP pigment technology for rapid holiday detection with safe blue light inspection lamps

#### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Semi-Gloss
<b>Color:</b>	Off White OAP, Haze Gray
<b>Volume Solids:</b>	100%, mixed
<b>Weight Solids:</b>	100%, mixed
<b>Mix ratio:</b>	2:1 (2 components)
<b>VOC (EPA method 24):</b>	<50 g/L ; 0.42 lb/gal, mixed

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>20.0</b> (500)	<b>30.0</b> (750)
<b>Dry mils (microns)</b>	<b>20.0</b> (500)	<b>30.0</b> (750)
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>53.0</b> (1.3)	<b>80.0</b> (2.0)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1604</b> (39.4)	

#### Drying Schedule @ 20.0 mils wet (500 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
<b>To touch:</b>	6 hours	3 hours	80 minutes
<b>To handle:</b>	24 hours	6 hours	2.5 hours
<b>Foot traffic:</b>	24 hours	6 hours	2.5 hours
<b>To recoat:</b>			
<b>minimum:</b>	8 hours	8 hours	8 hours
<b>maximum:</b>	7 days	7 days	7 days
<b>Cure to service:</b>	7 days	24 hours	24 hours
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			
<b>Pot Life:</b>	75 minutes	30 minutes	15 minutes
<b>Sweat-in-Time:</b>	None required		

<b>Shelf Life:</b>	24 months, unopened at 77°F (25°C)
<b>Flash Point:</b>	>200°F (93°C), PMCC, mixed
<b>Reduction:</b>	Not recommended
<b>Clean Up:</b>	MEK, MAK

#### RECOMMENDED USES

For use over prepared concrete and steel in the following industrial and marine exposures:

- Petrochemical storage tanks and piping
- Trenches, troughs, sumps, pits
- Ballast tanks interiors and crude oil storage tank interiors
- Water and waste water facilities
- Where rapid return to service is required
- Meets performance requirements of MIL-PRF-23236
- Chemical Holding Tanks (CHT)
- Well deck overheads
- Acceptable for use with cathodic protection systems
- Ballast tanks
- Fuel tanks
- Fossil fuel power plants/tanks
- Power generation market

#### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Steel

**Surface Preparation\*:** SSPC-SP10/NACE 2

**System Tested\*:**

1 ct. ExpressCote 150 @ 20 mils (500 microns) dft

Test Name	Test Method	Results
<b>Adhesion</b>	ASTM D4541, Patti Tester	>2900 psi
<b>Cathodic Disbondment</b>	MIL-PRF-23236D	Pass
<b>Direct Impact Resistance</b>	ASTM D2794	50 in-lbs.
<b>Chemical Holding Tank Testing</b>	MIL-PRF 23236D	Pass
<b>Flame Spread</b>	MIL-PRF 23236D	Pass
<b>Edge Retention</b>	MIL-PRF 23236D	Passes (>70%)



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#### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Immersion:</b>			
<b>Steel:</b>			
1 ct.	ExpressCote 150	20.0-30.0	(500-750)
<b>Concrete:</b>			
1 ct.	Corobond HS Epoxy Primer	3.0-4.0	(75-100)
1 ct.	ExpressCote 150	20.0-30.0	(50-750)
<b>or</b>			
1 ct.	Corobond 100 Epoxy Primer	4.0-6.0	(100-150)
1 ct.	ExpressCote 150	20.0-30.0	(500-750)

Under certain application conditions a "blush" layer may form on the surface of the coating. If a blush forms this must be removed by cleaning with a water detergent solution prior to repair/touch-up.

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, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation for immersion:

Iron & Steel:	SSPC-SP10, 2-3 mil (50-75 micron) profile
Concrete:	SSPC-SP13/NACE 6 or ICRI No. 310.2R, CSP 3-5

##### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal	Sa 3	SP 5	1
Near White Metal	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	SP 2	-
Rusted	C St 2	SP 2	-
Pitted & Rusted	C St 2	SP 2	-
Rusted	C St 3	SP 3	-
Pitted & Rusted	D St 3	SP 3	-

#### TINTING

B62V150 Part B 5 gallon Component may be tinted with up to 3 oz of Maxitoner phthalo green or black colorant

#### APPLICATION CONDITIONS

Temperature:	Surface: 50°F (10°C) minimum, 120°F (49°C) maximum
	Air: 50°F (10°C) minimum, 120°F (49°C) maximum
	Material: 100°F (38°C) minimum, 130°F (54°C) maximum

At least 5°F (2.8°C) above dew point.

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information. Material should be stored and kept at or above 50°F (10°C).

#### ORDERING INFORMATION

Packaging:	15 gallons (56.7L) mixed
Part A	10 gal (37.8L) in two 5 gal (18.9L) containers
Part B	5 gal (18.9L) in a 5 gal (18.9L) container
Weight:	12.4 ± 0.2 lb/gal ; 1.49 Kg/L (mixed)

#### SAFETY PRECAUTIONS

Refer to the MSDS 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.

#### DISCLAIMER

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### APPLICATION BULLETIN

TRM.34

#### 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.

##### Iron & Steel, Immersion Service:

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. For better performance a White Metal Blast Cleaning per SSPC-SP5/NACE 1 can be used. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Coat any bare steel the same day as it is cleaned or before flash rusting occurs. Remove all weld splatter.

##### Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 3-5.

##### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.  
ICRI No. 310.2R Concrete Surface Preparation.

#### APPLICATION CONDITIONS

Temperature: Surface: 50°F (10°C) minimum, 120°F (49°C) maximum  
Air: 50°F (10°C) minimum, 120°F (49°C) maximum  
Material: 100°F (38°C) minimum, 130°F (54°C) maximum

At least 5°F (2.8°C) above dew point.

Relative humidity: 85% maximum

#### 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.

Reduction.....not recommended

Clean up.....MAK, MEK

##### Plural Component Equipment

Pump.....XP70 or Wiwa Duomix 333  
Pressure.....5000 Psi  
Hose.....3/8" ID minimum  
Gun.....Graco Silver Series or XTR Series  
Tip.....519-.525  
Material temp. @ gun...100°F (38°C)  
Static Mixing Tubes.....Use a minimum of 2 static mixers.  
Place one 1/2 " ID 5 " long static mixing tube near the mix manifold. Place a second 1/2 " ID 5" long static mixing tube between the integrated line and whip hose

The material should be 120°F-130°F (49°C-54°C) (vary as needed) at the mixing block for optimal atomization based on tip size and pump pressure.

**Do not heat above 140°F (60°C). Material temperature for Part A and B components should be within 20°F of each other during application for mixing purposes.**

##### Brush

For stripe coating or repair only:

Brush.....Nylon/Polyester Natural Bristle

If specific application equipment is not listed above, equivalent equipment may be substituted.

Surface Preparation Standards			
Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
White Metal	Sa 3	SP 5	1
Near White Metal	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted C St 2	SP 2	-
Pitted & Rusted	D St 2	SP 2	-
Rusted	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	SP 3	-



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### APPLICATION BULLETIN

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#### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

ExpressCote 150 comes in premeasured containers which when mixed provides 15 gallons (56.7L) of ready-to-apply material.

**Mixing Instructions:** Mix contents of each component thoroughly with low speed power agitation at slow speeds. Make sure no pigment remains on the bottom or the side of the can. Then fill plural component hoppers with part A and B respectively.

Apply paint at the recommended film thickness and spreading rate as indicated below:

##### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	20.0 (500)	30.0 (750)
Dry mils (microns)	20.0 (500)	30.0 (750)
~Coverage sq ft/gal (m <sup>2</sup> /L)	53.0 (1.3)	80.0 (2.0)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1604 (39.4)	

##### Drying Schedule @ 20.0 mils wet (500 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	6 hours	3 hours	80 minutes
To handle:	24 hours	6 hours	2.5 hours
Foot traffic:	24 hours	6 hours	2.5 hours
To recoat:			
minimum:	8 hours	7 hours	7 hours
maximum:	7 days	7 days	7 days
Cure to service:	7 days	24 hours	24 hours
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			
Pot Life:	75 minutes	30 minutes	15 minutes
Sweat-in-Time:		None required	

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

#### CLEAN UP INSTRUCTIONS

Clean tools, spills, and spatters immediately with MAK or MEK. Follow manufacturer's safety recommendations when using any solvent.

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#### PERFORMANCE TIPS

Stripe coat all crevices, welds and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas and pinholes. If necessary, cross coat spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climate conditions, and excessive film build.

No reduction of material is recommended, as this can affect film build, appearance and performance.

Brush application is for stripe coating and small areas only.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

**For Immersion Service:** (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Guidance on techniques and required equipment to inspect a coating system incorporating Opti-Check OAP Technology can be found in SSPC-TU 11.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended down time with MAK or MEK.

Refer to Product Information sheet for additional performance characteristics and properties.

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