



# Protective & Marine Coatings

## CORPS OF ENGINEERS FORMULA V-766e VINYL TOPCOAT IMPACTED IMMERSION COATING

B64A300  
B64W300

GRAY  
WHITE

Revised: August 1, 2017

### PRODUCT INFORMATION

9.65

#### PRODUCT DESCRIPTION

Solution vinyl topcoat designed in accordance with the compositional and performance requirements of Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures, Formula V-766e.

#### PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Gray, White
Volume Solids:	19% ± 2% (calculated)
Weight Solids:	33% ± 2%
VOC (EPA Method 24):	700 g/L; 5.83 lb/gal maximum

#### Recommended Spreading Rate per coat:

Wet mils:	Up to 10.5 wet mils in one double spray coat.
Dry mils:	Up to 2.0 dry mils in one double spray coat.
Coverage:	152 sq ft/gal approximate
NOTE: Areas inaccessible to spraying shall be brushed. Multiple coats may be required to achieve minimum film thickness.	

#### Drying Schedule @ 10.5 mils wet @ 50% RH:

	@ 77°F
To touch:	<5 minutes
To recoat:	Per UFGS 09 97 02, subsequent coats can be applied any time after the previous coat is tack-free and firm to the touch, provided that no speed-up or delay in the recoating schedule shall cause film defects such as sags, runs, air bubbles, air craters, or poor intercoat adhesion
To cure - immersion service:	Above 65°F: 3 days minimum Below 65°F and/or if the immersion exposure involves considerable abrasion: 6 days minimum

Shelf Life:	12 months, unopened Store indoors at 40°F to 100°F
Flash Point:	47°F SETA Flash
Reducer/Clean Up:	
Below 50°F:	MEK, R6K10
50°F - 70°F:	MIBK
Above 70°F:	MIAC

#### RECOMMENDED USES

When used as specified in Corps of Engineers Guide Specification UFGS 09 97 02 Paint System 4 and 5-E-Z, suitable for most freshwater structures subject to moderate-to-high abrasive, erosive, and gouging stresses stemming from moving water carrying floating debris and ice, e.g. navigation dam gates, tainter valves, sluice gates, and trash racks.

#### PERFORMANCE CHARACTERISTICS

Meets the compositional and performance requirements of Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures, Formula V-766e, Vinyl-Type Impacted Immersion Coating.



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#### RECOMMENDED SYSTEMS

##### Steel, Immersion:

##### Corps of Engineers Section UFGS 09 97 02, Paint System 4:

Apply four (4) to five (5) alternating coats of Gray and White V-766e Vinyl Topcoat @ up to 2.0 mils dry in one double spray coat.

Total system dry film thickness must be 7.5 mils average with no spot less than 6.0 mils

##### Steel, Immersion:

##### Corps of Engineers Section UFGS 09 97 02, Paint System 5-E-Z:

1st Coat : Zinc Clad 108 @ up to 2.5 mils dry in one double spray coat; must be 1.5-2.5 mils above blast profile)

2nd Coat: V-766e Gray Vinyl Topcoat @ up to 2.0 mils dry in one double spray coat

3rd Coat: V-766e White Vinyl Topcoat @ up to 2.0 mils dry in one double spray coat

4th Coat: V-766e Gray Vinyl Topcoat @ up to 2.0 mils dry in one double spray coat

Total system dry film thickness must be 7.0 mils average dft with no spot less than 5.5 mils dft

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

#### 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.

#### 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 good adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

\* Iron & Steel: SSPC-SP5, 1.5-2.5 mils profile

Surface Preparation Standards					
Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE	
White Metal	Sa 3	Sa 3	SP 5	1	
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2	
Commercial Blast	Sa 2	Sa 2	SP 6	3	
Brush-Off Blast	Sa 1	Sa 1	SP 7	4	
Hand Tool Cleaning	C St 2	C St 2	SP 2	-	
Pitted & Rusted	D St 2	D St 2	SP 2	-	
Rusted	C St 3	C St 3	SP 3	-	
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-	

#### TINTING

Do not tint.

#### APPLICATION CONDITIONS

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02, Painting Hydraulic Structures.

Temperature: 35°F minimum, 125°F maximum  
(air, surface, and material)  
At least 5°F above dew point

Paint shall be applied only to surfaces that are above the dew point temperature and that are completely free of moisture as determined by sight and touch.

Refer to product Application Bulletin for detailed application information.

#### ORDERING INFORMATION

Packaging 5 gallon container

Weight per gallon: 8.4 ± 0.2 lb

#### 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.



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### APPLICATION BULLETIN

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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.

**All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02, Painting: Hydraulic Structures.**

#### APPLICATION CONDITIONS

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specifications UFGS 09 97 02, Painting: Hydraulic Structures

Temperature: 35°F minimum, 125°F maximum  
(air, surface, and material)  
At least 5°F above dew point

Paint shall be applied only to surfaces that are above the dew point temperature and that are completely free of moisture as determined by sight and touch.

#### 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.

#### Reducer/Clean Up:

Below 50°F .....MEK, R6K10  
50°F - 70°F .....MIBK  
Above 70°F .....MIAK

All surface preparation, application and inspection procedures to be in accordance with Corps of Engineers Guide Specification UFGS 09 97 02\*, Painting: Hydraulic Structures

\*NOTE: Airless-type equipment shall not be used for the application of vinyl paints. Use only conventional spray equipment.

#### Brush

Brush.....Only areas inaccessible to spraying  
shall be brushed with Nylon/Polyester  
or Natural Bristle Brush  
Reduction.....Not recommended

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

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	4
Brush-Off Blast	Sa 1	Sa 1	SP 3	-
Hand Tool Cleaning	CS 2	CS 2	SP 3	-
Pitted & Rusty	D St 2	D St 2	SP 3	-
Rusty	CS 3	CS 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-
Pitted & Rusty	D St 3	D St 3	SP 3	-



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### APPLICATION BULLETIN

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#### APPLICATION PROCEDURES

Surface preparation must be completed as indicated

Mix paint thoroughly by boxing and stirring before use.

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

##### Recommended Spreading Rate per coat:

**Wet mils:** Up to 10.5 wet mils in one double spray coat.

**Dry mils:** Up to 2.0 dry mils in one double spray coat.

**Coverage:** 152 sq ft/gal approximate

*NOTE: Areas inaccessible to spraying shall be brushed. Multiple coats may be required to achieve minimum film thickness.*

##### Drying Schedule @ 10.5 mils wet @ 50% RH:

@ 77°F

**To touch:** <5 minutes

**To recoat:** Per UFGS 09 97 02, subsequent coats can be applied any time after the previous coat is tack-free and firm to the touch, provided that no speed-up or delay in the recoating schedule shall cause film defects such as sags, runs, air bubbles, air craters, or poor intercoat adhesion

**To cure - immersion service:**  
Above 65°F: 3 days minimum  
Below 65°F and/or if the immersion exposure involves considerable abrasion: 6 days minimum

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

#### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MEK, R6K10 if below 50°F, MIBK if between 50°F and 70°F, or MIAK if above 70°F. Clean tools immediately after use with MEK, R6K10 if below 50°F, MIBK if between 50°F and 70°F, or MIAK if above 70°F. Follow manufacturer's safety recommendations when using any solvent.

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#### PERFORMANCE TIPS

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

**IMPORTANT:** Calculated coverage rate is based on volume solids, recommended dry film thickness, and 100% paint utilization. It does 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, climatic conditions and excessive film build.

Excessive reduction of material can affect film build and appearance.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with MEK, R6K10 if below 50°F, MIBK if between 50°F and 70°F, or MIAK if above 70°F.

Due to rapid solvent evaporation, wet film thickness cannot be accurately measured.

This product is designed to be thinned with a specific thinner for a given temperature. Insufficient thinning or use of an incorrect thinner may result in dry spray, pinholes, entrapped air, or other film defects.

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

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