Protective & Marine Coatings

WATERBORNE ACRYLIC DRY FALL

B42W1	Flat White
B42T1	Clear Tint Base (Flat)
B42W2	Eg-Shel White
B42BW3	Flat Black

Revised 9/09

Product Information

3.01

Product Description

WATERBORNE ACRYLIC DRY FALL is a water based, high light reflective white coating (black also available) that falls dry in ten feet. Fallout can be swept up for easy cleanup of work area.

- High hiding
- Increases lighting efficiency
- High light reflectance
- Flash rust resistance
- Ten foot dry fallout
- Easy cleanup
- Low odor
- Interior use

Product Characteristics

Finish: Flat or Eg-Shel

Color: Flat White, Eg-Shel White, Flat Black a wide range of colors available

Volume Solids: (White) 41% ± 2%

Weight Solids: (White) 58% ± 2%

VOC (calculated): <100g/L; 0.83 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**7.0** 175	**11.0** 275
Dry mils (microns)	**3.0** 75	**4.5** 112
~Coverage sq ft/gal (m^2/L)	**135** 3.3	**225** 5.5
Theoretical coverage sq ft/gal (m^2/L) @ 1 mil / 25 microns dft	**656** 16.1	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 7.0 mils wet (175 microns):

	@ 55°F/13°C	@ 77°F/25°C *50% RH*	@ 110°F/43°C
To touch:	45 minutes	30 minutes	20 minutes
To handle:	1 hour	45 minutes	30 minutes
To recoat:	2 hours	1 hour	1 hour
To cure:	2 days	4 hours	3 hours
Dry fallout:	10-20 feet	10 feet	10 feet

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

Shelf Life: 36 months, unopened. Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: 499°F (260°C), PMCC

Reducer/Clean Up:
Above 80°F (27°C): Water
Below 80°F (27°C): 60% denatured alcohol / 40% water

Recommended Uses

For use over prepared interior ceilings, walls, and structural steel in environments such as:

- Warehouses
- Industrial, commercial, and institutional buildings
- Textile mills
- Manufacturing facilities
- Gymnasiums
- Suitable for use in USDA inspected facilities
- Acceptable for use in high performance architectural applications.

Performance Characteristics

- The bright, full-hiding, brilliant white shade of Waterborne Acrylic Dry Fall increases an area's lighting efficiency, which promotes safety and reduces eye strain due to dimly lit work stations. It helps improve employee productivity through better work area lighting due to its high light reflectance.
- The fast drying modified acrylic resin of this waterborne coating reduces the propensity to rust, bleed, and freckle when applied over small bare steel areas, previous coating nicks, and slight rust.
- The ten foot dry fallout characteristic reduces cleanup because its overspray dust can be swept up, thereby limiting the extent of masking equipment and floor areas. Waterborne Acrylic Dry Fall dusts less than conventional alkyd dry fall products. This helps diminish the nuisance from overspray on the applicator and the amount of waste and dust to be cleaned up.
- Light Reflectance Value of the White is 83 ± 3%
  Light Reflectance Value of the Black is 5 ± 3%

Substrate*: Cold Rolled Steel

Surface Preparation*: SSPC-SP1

System Tested*:
1 ct: Waterborne Acrylic Dryfall Flat @ 4.5 mils (112 microns) dft
*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060 CS10 wheel, 1000 cycles, 500 g load	122 mg loss (average)
Adhesion (blasted steel)	ASTM D4541	408 psi
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Impact Resistance	ASTM D2794	Direct: 80 in. lbs.; Reverse: 40 in. lbs.

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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Steel, alkyd primer:			
1 ct.	Kem Bond HS	2.0-5.0*	(50-125)
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Steel & Rusted Galvanized, acrylic primer:			
1 ct.	DTM Acrylic Primer/Finish	2.5-5.0	(63-125)
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Aluminum:			
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Galvanized Metal:			
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Concrete Block:			
1 ct.	Heavy Duty Block Filler	10.0-15.0	(250-375)
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Poured Concrete Walls, Interior:			
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Plaster and Wood, Interior:			
1 ct.	PrepRite Wall & Wood Primer	1.5-2.0	(40-50)
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Drywall:			
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)
Previously Painted:			
1-2 cts.	Waterborne Acrylic Dry Fall	3.0-4.5	(75-112)

*Steel Spec FD primers also acceptable.

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.

Do not use hydrocarbon solvents for cleaning.

Minimum recommended surface preparation:

*	Iron & Steel:	SSPC-SP2
	Aluminum:	SSPC-SP1
	Galvanizing:	SSPC-SP1
	Concrete & Masonry:	SSPC-SP13/NACE 6, or ICRI 03732, CSP1-3
*	Wood:	Clean, smooth, dust free
	Previously Painted	SSPC-SP1

* Primer required

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	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Tint with EnviroToner Colorants only. White may be tinted with up to 4 oz. per gallon. Clear Base may be tinted with up to 12 oz. per gallon. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Not controlled for tint strength.

APPLICATION CONDITIONS

Temperature:	50°F (10°C) minimum, 110°F (43°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	75% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	5 gallon (18.9L) containers
Weight:	11.58 ± 0.2 lb, 1.4 Kg/L may vary with color

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.

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.

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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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.

Do not use hydrocarbon solvents for cleaning.

Iron & Steel
Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel within 8 hours or before flash rusting occurs. Primer required.

Aluminum
Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1.

Galvanized Steel
Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. 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. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary. Fill bug holes, air pockets and other voids with ArmorSeal Crack Filler. Primer required.
Brick must be allowed to weather for one year prior to surface preparation and painting.

Drywall
Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to the application of paint.

Wood
Surface must be clean, dry and sound. Prime with recommended primer and paint as soon as possible. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

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
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Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

Application Conditions

Temperature:	50°F (10°C) minimum, 110°F (43°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	75% maximum

NOTE: Dryfall characteristics will be adversely affected at temperatures below 77°F (25°C) or above 50% relative humidity.

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:
Above 80°F (27°C).....Water
Below 80°F (27°C).....60% denatured alcohol / 40% water

Airless Spray
Pressure.....2800
Hose.....1/4" ID
Tip.....017"-.019"
Filter.....60 mesh
Reduction.....Not recommended

Conventional Spray
Gun.....Binks 95
Fluid Nozzle.....63C
Air Nozzle.....63PB
Atomization Pressure.....60 psi
Fluid Pressure.....50 psi
Reduction.....As needed up to 10% by volume

Brush
Brush.....Not recommended

Roller
Cover.....Not recommended

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

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Application Procedures

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**7.0** 175	**11.0** 275
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To cure:	2 days	4 hours	3 hours
Dry fallout:	10-20 feet	10 feet	10 feet

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

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

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.

During the early stages of drying, the coating is sensitive to rain, dew, high humidity and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

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, overthinning, climatic conditions, and excessive film build.

Reduction will have an adverse effect on the dryfall and flash rust characteristics of this coating.

Dryfall characteristics will be adversely affected at temperatures below 77°F (25°C) or above 50% relative humidity.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with water.

Overspray landing on hot surfaces may adhere to these surfaces. Immediately remove overspray from hot surfaces before adhesion occurs. Note that surface temperatures can be higher than air temperature.

Use EnviroToner Colorants only at the recommended levels.

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

Clean Up Instructions

Clean spills and spatters immediately with soap and warm water. Clean tools immediately after use with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits, R1K4, to prevent rusting of equipment. Follow manufacturer's safety recommendations when using any solvent.

Safety Precautions

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