Protective & Marine Coatings

HEAVY DUTY BLOCK FILLER

B42W46

Revised 9/09

PRODUCT INFORMATION

1.01

PRODUCT DESCRIPTION

HEAVY DUTY BLOCK FILLER is an acrylic resin block filler for use on interior and exterior poured and precast concrete, concrete block, and cinder block.

- Excellent moisture resistance
- Excellent filling characteristics
- Suitable for use in USDA inspected facilities
- Resurface spalled and deteriorated concrete walls and ceilings
- Low odor, low VOC

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	White
Volume Solids:	53% ± 2%
Weight Solids:	73% ± 2%
VOC (EPA Method 24):	<100 g/L; 0.83 lb/gal

Recommended Spreading Rate per coat:
(varies with application, surface irregularities, and degree of sealing and filling desired.)

	Minimum		Maximum	
Wet mils (microns)	**18.0**	450	**34.0**	850
Dry mils (microns)	**10.0**	250	**18.0**	450
~Coverage sq ft/gal (m^2/L)	**50**	1.2	**88**	8.2
Theoretical coverage sq ft/gal (m^2/L) @ 1 mil / 25 microns dft	**848**	21		

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

Drying Schedule @ 18.0 mils wet (450 microns):

	@ 55°F/13°C	@ 77°F/25°C *50% RH*	@ 95°F/35°C
To touch:	1.5 hours	1 hour	30 minutes
To handle:	8 hours	6 hours	1 hour
To recoat:			
itself	3 hours	1 hour	30 minutes
water borne	48 hours	18 hours	6 hours
solvent borne	48 hours	48 hours	24 hours
To cure:	30 days	30 days	10 days

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:	>200°F (>93°C), PMCC
Reducer/Clean Up:	Water

RECOMMENDED USES

For use over prepared masonry surfaces in:

- Dairies
- Mining Industry
- Chemical Plants
- Hospitals
- Schools
- Equipment Foundations
- Water and Sewage Treatment Facilities
- Industrial concrete ceilings and walls
- Petroleum Refineries
- Acceptable for use in high performance architectural applications
- Bottling Plants
- Tunnels
- Paper Mills
- Jails
- Power Plants

PERFORMANCE CHARACTERISTICS

Substrate*: Concrete
Surface Preparation*: SSPC-SP3
System Tested*:
1 ct. Heavy Duty Block Filler @ 10 mils dft/ct
*unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D4541	200 psi
Direct Impact	ASTM D2794	6 in. lbs.
Dry Heat Resistance	ASTM D2485	200°F (93°C)
Flexibility (cold rolled steel)	ASTM D522, 180° bend, 1" mandrel	Passes
Moisture Resistance	TT-C-555B	No failure
Pencil Hardness	ASTM D3363	5B
Thermal Shock	ASTM D2246 (5 cycles)	Excellent
Winder Driven Rain Resistance	TT-C-555b	Passes
Wet Heat Resistance	Non-immersion	120°F (49°C)

Provides performance comparable to products formulated to federal specification: TT-F-1098D Type 1

continued on back

Protective & Marine Coatings

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B42W46

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1.01

RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Untopcoated, light service			
Interior:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
Exterior:			
2 cts.	Heavy Duty Block Filler	10.0-18.0	(250-450)
Acrylic Finishes:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
2 cts.	DTM Acrylic Coating	2.5-4.0	(63-100)
or	Metalatex Semi-Gloss Coating	0.5-4.0	(13-100)
or	Sher-Cryl HPA	2.5-4.0	(62.5-100)
Alkyd Finishes:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
2 cts.	Industrial Enamel HS	2.0-4.0	(63-100)
or	Metalastic DTM	3.0-5.0	(75-125)
or	Waterbased Industrial Enamel	1.5-3.0	(38-75)
Catalyzed Epoxy, Solvent based:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
2 cts.	Tile-Clad HS Epoxy	2.5-4.0	(63-100)
or	Macropoxy 646	5.0-10.0	(125-250)
Catalyzed Epoxy, Water based:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
2 cts.	Water Based Catalyzed Epoxy	2.5-4.0	(63-100)
or	Waterbased Tile Clad Epoxy	2.0-4.0	(63-100)
or	Pro Industrial HB Epoxy	4.0-6.0	(100-150)
Polyurethane:			
1 ct.	Heavy Duty Block Filler	10.0-18.0	(250-450)
1 ct.	Macropoxy 646	5.0-10.0	(125-250)
2 cts.	Hi-Solids Polyurethane	3.0-4.0	(75-100)
or	Sherthane 2K Urethane	2.0-4.0	(63-100)
or	Acrolon 218 HS Polyurethane	3.0-6.0	(75-150)

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

DISCLAIMER

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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:
Concrete & Masonry: SSPC-SP13/NACE 6,or ICRI 03732, CSP 1-3

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

Do not tint.

To provide color as a guide coat, or when color is required for exterior exposure, mix 4 parts by volume of Heavy Duty Block Filler with 1 part by volume of A-100 Exterior Latex Flat, A6 series. For interior exposures, mix 4 parts by volume of Heavy Duty Block Filler with 1 part by volume of ProMar 200 Interior Latex Flat Wall Paint, B30W200 Series.

APPLICATION CONDITIONS

Temperature:	55°F (13°C) minimum, 95°F (35°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

PRODUCT CHARACTERISTICS

Packaging:	5 gallon (18.9L) containers
Weight:	14.25 ± 0.2 lb/gl 1.71 kg/L

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

1.01

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.

Concrete/Masonry

New

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F (24°C). Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.

Old

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means.

Fill all cracks, voids, and bugholes with Steel-Seam FT910.

Always follow the standard methods listed below:

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 03732

Do not apply over existing coatings.

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	-

APPLICATION CONDITIONS

Temperature:	55°F (13°C) minimum, 95°F (35°C) maximum (air, surface, and material) 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.

Reducer/Clean up .....Water

Airless Spray

Pressure.....2000 psi
Hose.....1/4" - 3/8" ID
Tip .....028"
Filter .....30 mesh
Reduction.....not recommended

Conventional Spray

Gun .....Binks 95
Fluid Nozzle 67
Air Nozzle.....67PD
Atomization Pressure.....50 psi
Fluid Pressure.....20-25 psi
Reduction.....as needed up to 12½% by volume

Brush

Brush.....Nylon/Polyester
Reduction.....not recommended

Roller

Cover .....1/2" - 1 1/2" synthetic
Reduction.....not recommended

Squeegee also acceptable

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

continued on back

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B42W46

APPLICATION BULLETIN

1.01

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Heavy Duty Block Filler is ready-to-spray (airless) and does not require thinning. Mix material thoroughly to a uniform consistency with power agitation and apply by brush, roller, or spray. Follow by squeegee, trowel, or roller, being careful to force material into pores in order to produce a relatively smooth surface. In severe wet areas, a smooth continuous pinhole-free appearance is necessary for proper protection before topcoating. Two coats will provide the most uniform surface.

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

Recommended Spreading Rate per coat:

(varies with application, surface irregularities, and degree of sealing and filling desired.)

	Minimum		Maximum	
Wet mils (microns)	**18.0**	450	**34.0**	850
Dry mils (microns)	**10.0**	250	**18.0**	450
~Coverage sq ft/gal (m^2/L)	**50**	1.2	**88**	8.2
Theoretical coverage sq ft/gal (m^2/L) @ 1 mil / 25 microns dft	**848**	21		

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

Drying Schedule @ 18.0 mils wet (450 microns):

	@ 55°F/13°C	@ 77°F/25°C *50% RH*	@ 95°F/35°C
To touch:	1.5 hours	1 hour	30 minutes
To handle:	8 hours	6 hours	1 hour
To recoat:			
itself	3 hours	1 hour	30 minutes
water borne	48 hours	18 hours	6 hours
solvent borne	48 hours	48 hours	24 hours
To cure:	30 days	30 days	10 days

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.

CLEAN UP INSTRUCTIONS

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

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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

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.

Excessive reduction of material can affect film build, appearance, and adhesion.

Make sure material is forced into pores and bugholes in order to provide a pinhole free surface.

Do not use below grade as a hydrostatic waterproofer or in immersion service.

Rolling will provide a textured finish. Squeegee will provide a smoother finish.

For better filling results, apply by airless spray and immediately back roll.

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

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