



**Industrial
&
Marine
Coatings**

1.01 HEAVY DUTY BLOCK FILLER

B42W46

PRODUCT INFORMATION

Revised 4/05

PRODUCT DESCRIPTION	RECOMMENDED USES																																						
<p>HEAVY DUTY BLOCK FILLER is a pure acrylic resin block filler for use on interior and exterior poured and precast concrete, concrete block, and cinder block.</p> <ul style="list-style-type: none"> • Excellent moisture resistance • Excellent filling characteristics • Suitable for use in USDA inspected facilities • Resurface spalled and deteriorated concrete walls and ceilings 	<p>For use over prepared masonry surfaces in:</p> <ul style="list-style-type: none"> • Dairies • Mining Industry • Chemical Plants • Hospitals • Schools • Equipment Foundations • Water and Sewage Treatment Facilities • Industrial concrete ceilings and walls • Petroleum Refineries • Bottling Plants • Tunnels • Paper Mills • Jails • Power Plants <p>Acceptable for use in high performance architectural applications.</p>																																						
PRODUCT CHARACTERISTICS	PERFORMANCE CHARACTERISTICS																																						
<p>Finish: Flat</p> <p>Color: White</p> <p>Volume Solids: 53% ± 2%</p> <p>Weight Solids: 73% ± 2%</p> <p>VOC (EPA Method 24): <100 g/L; 0.83 lb/gal</p> <p>Recommended Spreading Rate per coat: (varies with application, surface irregularities, and degree of sealing and filling desired.)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-right: 20px;">Wet mils:</td> <td>18.0 - 34.0</td> </tr> <tr> <td>Dry mils:</td> <td>10.0 - 18.0</td> </tr> <tr> <td>Coverage:</td> <td>50 - 88 sq ft/gal approximate</td> </tr> </table> <p>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 18.0 mils wet and 50% RH:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">@55°F</th> <th style="text-align: center;">@ 77°F</th> <th style="text-align: center;">@95°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td style="text-align: center;">1.5 hours</td> <td style="text-align: center;">1 hour</td> <td style="text-align: center;">30 minutes</td> </tr> <tr> <td>To handle:</td> <td style="text-align: center;">8 hours</td> <td style="text-align: center;">6 hours</td> <td style="text-align: center;">1 hour</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">itself</td> <td style="text-align: center;">3 hours</td> <td style="text-align: center;">1 hour</td> <td style="text-align: center;">30 minutes</td> </tr> <tr> <td style="padding-left: 20px;">water borne</td> <td style="text-align: center;">48 hours</td> <td style="text-align: center;">18 hours</td> <td style="text-align: center;">6 hours</td> </tr> <tr> <td style="padding-left: 20px;">solvent borne</td> <td style="text-align: center;">48 hours</td> <td style="text-align: center;">48 hours</td> <td style="text-align: center;">24 hours</td> </tr> <tr> <td>To cure:</td> <td style="text-align: center;">30 days</td> <td style="text-align: center;">30 days</td> <td style="text-align: center;">10 days</td> </tr> </tbody> </table> <p>Drying time is temperature, humidity, and film thickness dependent.</p> <p>Shelf Life: 36 months, unopened Store indoors at 40°F to 100°F.</p> <p>Flash Point: >200°F, PMCC</p> <p>Reducer/Clean up: Water</p>	Wet mils:	18.0 - 34.0	Dry mils:	10.0 - 18.0	Coverage:	50 - 88 sq ft/gal approximate		@55°F	@ 77°F	@95°F	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	<p>System Tested: (unless otherwise indicated) Substrate: Concrete Surface Preparation: Clean, dry, sound 1 ct. Heavy Duty Block Filler @ 10 mils dft/ct</p> <p>Adhesion: Method: ASTM D4541 Result: 200 psi</p> <p>Direct Impact Resistance: Method: ASTM D2794 Result: 6 in. lbs.</p> <p>Dry Heat Resistance: Method: ASTM D2485 Result: 200°F</p> <p>Flexibility: (cold rolled steel) Method: ASTM D522, 180° bend, 1" mandrel Result: Passes</p> <p>Moisture Resistance: Method: TT-C-555B Result: No failure</p> <p>Pencil Hardness: Method: ASTM D3363 Result: 5B</p> <p>Thermal Shock: Method: ASTM D2246 (5 cycles) Result: Excellent</p> <p>Wind Driven Rain Resistance: Method: TT-C-555b Result: Passes</p> <p>Wet Heat Resistance: Method: Non-immersion Result: 120°F</p> <p>Provides performance comparable to products formulated to federal specification: TT-F-1098D Type 1</p>
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RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p>Untopcoated, light service Interior: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft Exterior: 2 cts. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft/ct</p> <p>Acrylic Finishes: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 2 cts. DTM Acrylic Coating @ 2.5 - 4.0 mils dft/ct or Metalatex Semi-Gloss Coating @ 1.5 - 4.0 dft/ct or Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Alkyd Finishes: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 2 cts. Industrial Enamel HS @ 2.0 - 4.0 mils dft/ct or Metalastic DTM @ 3.0 - 5.0 mils dft/ct or Waterbased Industrial Enamel @ 1.5 - 3.0 mils dft/ct</p> <p>Catalyzed Epoxy, Solvent based: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 2 cts. Tile-Clad HS Epoxy @ 2.5 - 4.0 mils dft/ct or Macropoxy 646 @ 5.0 - 10.0 mils dft/ct</p> <p>Catalyzed Epoxy, Water based: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 2 cts. Water Based Catalyzed Epoxy @ 2.5-4.0 mils dft/ct or Waterbased Tile Clad Epoxy @ 2.0 - 4.0 mils dft/ct or Epo-Plex Multi-Mil @ 4.0 - 6.0 mils dft/ct</p> <p>Polyurethane 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 1 ct. Macropoxy 646 @ 5.0 - 10.0 mils dft 2 cts. Hi-Solids Polyurethane @ 3.0 - 4.0 mils dft/ct or Sherthane 2K Urethane @ 2.0 - 4.0 mils dft/ct or Acrolon 218 HS Polyurethane @ 3.0- 6.0 mils dft/ct</p> <p>The systems listed above are representative of the product's use, other systems may be appropriate.</p>	<p>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.</p> <p>Refer to product Application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation: Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3</p> <p style="text-align: center;">TINTING</p> <p>Do not tint.</p> <p>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.</p> <p style="text-align: center;">APPLICATION</p> <p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p> <p style="text-align: center;">ORDERING INFORMATION</p> <p>Packaging: 5 gallon containers Weight per gallon: 14.25 ± 0.2 lb</p> <p style="text-align: center;">SAFETY PRECAUTIONS</p> <p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>
DISCLAIMER	WARRANTY
<p>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.</p>	<p>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.</p>



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APPLICATION BULLETIN

Revised 4/05

SURFACE PREPARATION	APPLICATION CONDITIONS		
<p>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.</p> <p>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. 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.</p> <p>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.</p> <p>Fill all cracks, voids, and bugholes with ArmorSeal Crack Filler.</p> <p>Always follow the standard methods listed below:</p> <p>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</p> <p>Do not apply over existing coatings.</p>	<p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <tr> <th colspan="2" data-bbox="829 764 1520 806">APPLICATION EQUIPMENT</th> </tr> <p>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.</p> <p>Reducer/Clean up Water</p> <p>Airless Spray</p> <p>Pressure 2000 psi Hose 1/4" - 3/8" ID Tip028" Filter 30 mesh Reduction not recommended</p> <p>Conventional Spray</p> <p>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</p> <p>Brush</p> <p>Brush Nylon/Polyester Reduction not recommended</p> <p>Roller</p> <p>Cover 1/2" - 1 1/2" synthetic Reduction not recommended</p> <p>Squeegee also acceptable</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	APPLICATION EQUIPMENT	
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APPLICATION PROCEDURES	PERFORMANCE TIPS																																						
<p>Surface preparation must be completed as indicated.</p> <p>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.</p> <p>Apply paint at the recommended film thickness and spreading rate as indicated below:</p> <p>Recommended Spreading Rate per coat: (varies with application, surface irregularities, and degree of sealing and filling desired.)</p> <table border="0"> <tr> <td>Wet mils:</td> <td>18.0 - 34.0</td> </tr> <tr> <td>Dry mils:</td> <td>10.0 - 18.0</td> </tr> <tr> <td>Coverage:</td> <td>50 - 88 sq ft/gal approximate</td> </tr> </table> <p>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 18.0 mils wet and 50% RH:</p> <table border="0"> <tr> <td></td> <td>@55°F</td> <td>@ 77°F</td> <td>@95°F</td> </tr> <tr> <td>To touch:</td> <td>1.5 hours</td> <td>1 hour</td> <td>30 minutes</td> </tr> <tr> <td>To handle:</td> <td>8 hours</td> <td>6 hours</td> <td>1 hour</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> itself</td> <td>3 hours</td> <td>1 hour</td> <td>30 minutes</td> </tr> <tr> <td> water borne</td> <td>48 hours</td> <td>18 hours</td> <td>6 hours</td> </tr> <tr> <td> solvent borne</td> <td>48 hours</td> <td>48 hours</td> <td>24 hours</td> </tr> <tr> <td>To cure:</td> <td>30 days</td> <td>30 days</td> <td>10 days</td> </tr> </table> <p>Drying time is temperature, humidity, and film thickness dependent.</p> <p>Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.</p>	Wet mils:	18.0 - 34.0	Dry mils:	10.0 - 18.0	Coverage:	50 - 88 sq ft/gal approximate		@55°F	@ 77°F	@95°F	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	<p>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</p> <p>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.</p> <p>Excessive reduction of material can affect film build, appearance, and adhesion.</p> <p>Make sure material is forced into pores and bugholes in order to provide a pinhole free surface.</p> <p>Do not use below grade as a hydrostatic waterproofer or in immersion service.</p> <p>Rolling will provide a textured finish. Squeegee will provide a smoother finish.</p> <p>For better filling results, apply by airless spray and immediately back roll.</p> <p>Refer to Product Information sheet for additional performance characteristics and properties.</p>
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CLEAN-UP INSTRUCTIONS	SAFETY PRECAUTIONS
<p>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.</p>	<p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>

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