



ArmorSeal
Heavy
Duty Floor
Coatings

ARMORSEAL®
CRACK FILLER

PART A
PART B

B58AQ2
B60VQ2

GRAY
HARDENER

Revised 9/09

PRODUCT INFORMATION

8.01

PRODUCT DESCRIPTION

ARMORSEAL CRACK FILLER is a two-component, fast set epoxy paste developed specifically for sealing, smoothing, and fairing applications on concrete, metals, plastics (FRP), wood, or masonry. The smooth consistency and excellent non-sagging properties allow the product to be used on vertical and horizontal surfaces. Resistance to salt water, oils, fuels and many other chemicals is excellent and the compound is solvent-free and nontoxic. The material must be sanded prior to finish coating.

PRODUCT CHARACTERISTICS

Finish: Flat
Color: Gray
Volume Solids: 100%, mixed
VOC (calculated): 0 g/l; 0 lb/gal, mixed
Mix Ratio: 1:1 by volume

Recommended Spreading Rate:

Coverage: Approximately 462 cubic inches/2 gallon unit, (7571 cm³/2 gallon unit) 3/4" maximum thickness on verticals and 2" maximum thickness on horizontals.

Drying Schedule:

@ 72°F/22°C
 50% RH

To touch: 1 hour
Recoat/Sand: 2 hours minimum
Full cure: 24 hours

Drying time is temperature, humidity, and film thickness dependent. Immediate recoat possible with 100% solids coatings; consult your Sherwin-Williams representative.

Pot Life: 10-15 minutes
Sweat-in-Time: None required

Shelf Life: 18 months, unopened
 Store indoors at 40°F (4.5°C) to 100°F (38°C)

Flash Point: >200°F (93°C), mixed
Reduction: Not recommended
Clean Up: Reducer #54, R7K54

RECOMMENDED USES

- **Concrete/Masonry:**
 Can be used to fill and smooth hairline cracks, bug holes, anchor-bolt holes, gouges, or divots when movement of substrate is expected to be minimal.
- **Steel/Metals:**
 Can be used to smooth welds, pits, rough surfaces, irregularities, and seams.

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP10/NACE 2

System Tested*:

1 ct. ArmorSeal Crack Filler @ 40.0 mils (1000 microns) dft
 *unless otherwise noted below

Test Name	Test Method	Results
Compressive Strength	ASTM D695	8,900 psi
Dry Heat Resistance	ASTM D2485	150°F (66°C), intermittent 200°F (93°C)
Hardness	ASTM Shore D 4-2240	65-70 after 8 hours; 80-85 after 24 hours
Izod Impact Strength	ASTM D256	5.3 in. lb.
Tensile Strength	ASTM D638	2,600 psi



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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.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). 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. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

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 Concrete Surface Preparation.

Iron & Steel (atmospheric service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Wood

Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile. Prime with recommended primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped or burned, sanded and spot primed before full coat of primer is applied.

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.

ReductionNot recommended

Clean UpReducer #54, R7K54

Apply Material by Using:

- Putty knife
- Spatula
- Fairing and smoothing tools

BrushNot 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:

After surface has been prepared, mix equal quantities by volume of 1 part resin and 1 part hardener on small palette or mortar board with putty knife. Thoroughly mix equal quantities together until a uniform streak-free gray color is achieved.

Apply material using putty knife or spatula, removing all excess material. As material begins to harden, (approximately 10 - 15 minutes @ 72°F/22°C), an exceptionally smooth finish can be obtained by hand using a small amount of water sprinkled onto the surface (use rubber gloves). If desired, the product may be sanded after 2 hours @ 72°F (22°C).

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

Recommended Spreading Rate:

Coverage: Approximately 462 cubic inches/2 gallon unit, (7571 cm³/2 gallon unit) 3/4" maximum thickness on verticals and 2" maximum thickness on horizontals.

Drying Schedule:

**@ 72°F/22°C
50% RH**

To touch: 1 hour
Recoat/Sand: 2 hours minimum
Full cure: 24 hours

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Pot Life: 10-15 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 spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.

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.

PERFORMANCE TIPS

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.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

Product must be sanded or abraded prior to coating.

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

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.