



ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® EXPRESSPATCH™

Kit

KB58AQ5

DARK GRAY

Revised: May 28, 2015

PRODUCT INFORMATION

8.03

PRODUCT DESCRIPTION

ARMORSEAL EXPRESSPATCH is a 100% solids, low odor, waterbased urethane slurry floor patch kit, to be applied at 3/16" minimum thickness (smooth) and broadcast to yield a 1/4" finished system (textured). ExpressPatch can be applied with a flat trowel. It is designed to repair and protect concrete and masonry substrates from thermal shock, impact, corrosion, mild chemical attack and abrasion.

- Fast return to service - foot traffic in 6 hours
- Low temperature cure
- Can be applied to damp concrete
- Does not support microbial growth

PRODUCT CHARACTERISTICS

Finish:	Satin
Color:	Dark Gray
Volume Solids:	93%, mixed
VOC (calculated):	<2.0 g/l; .01 lb/gal, mixed
Mix Ratio:	3 components, pre-measured approximately 1/2 gal. per kit

Recommended Spreading Rate per coat:

Coverage: Approximately 6-7 sq ft per kit @ 3/16" thickness

Drying Schedule:

@ 72°F/22°C

50% RH

To touch:	3-4 hours
Foot traffic:	6-8 hours
To recoat/sand:	4-5 hours
Full service:	10-12 hours
Full cure:	48 hours

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

Pot Life: 10-15 minutes (2 minutes in mass)

Shelf Life:	12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	>200°F (93°C), PMCC, mixed
Reducer:	Not recommended
Clean Up:	Xylene, R2K4

RECOMMENDED USES

- For service temperatures from -50°F (-45°C) to 225°F (107°C)
- Can be used as a replacement for epoxy repair kits
- For use on horizontal surfaces
- Can be applied in deep patches up to 3" thick, as needed
- Appropriate for use in various service areas, including
 - Food processing
 - Commercial kitchens
 - Food and beverage plants
 - Meat and poultry processing plants
 - General industrial
 - Restrooms and concessions
- Acceptable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

Substrate*: Concrete

Surface Preparation*: SSPC-SP13

System Tested*:

1 ct. ArmorSeal ExpressPatch @ 3/16" - 1/4"

*unless otherwise noted below

Test Name	Test Method	Results
Compressive Strength	ASTM C 579	7,000 psi
Flexural Strength	ASTM C580	3,700 psi
Hardness	ASTM Shore D 2240	75
Impact Strength	ASTM D2794	16 ft/lb without cracking, delamination or chipping
Service Temperature		-50°F (-45°C) to 225°F (107°C)
Tensile Strength	ASTM C307	250-300 psi



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RECOMMENDED SYSTEMS

Dry Film Thickness / ct.
Mils (Microns)

ArmorSeal ExpressPatch is generally applied at a 3/16" to 1/4" thickness. It can be applied up to 3" thick for deep patches. Designed for use on horizontal surfaces.

Concrete:

- 1 ct. Apply ArmorSeal ExpressPatch at a 3/16" to 1/4" thickness on horizontal surfaces

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.

Minimum recommended surface preparation:

Concrete & Masonry: SSPC-SP13/NACE 6/ or ICRI
No. 310.2R, 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	C St 2	C St 2	SP 2	-
Rusted	D St 2	D St 2	SP 2	-
Pitted & Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 45°F (7°C) minimum, 80°F (27°C) maximum
(air, surface, and material)
At least 5°F (2.8°C) above dew point
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:

Approximately 1/2 gallon (1.89L) mixed
Part A: ~ 1 quart (0.94L)
Part B: ~ 0.7 quarts (0.66L)
Part C: 12 lbs. (1.44 Kg/L)

Weight: 20 lbs/gal ; 2.4 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.

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.



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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.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, 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.

Follow the standard methods listed below when applicable:

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 No. 310.2R Concrete Surface Preparation.

APPLICATION CONDITIONS

Temperature: 45°F (7°C) minimum, 80°F (27°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 UpXylene, R2K4

Apply Material by Using:

- Flat Trowel
- Loop roller for leveling

BrushNot 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	3
Brush-Off Blast	Sa 1	Sa 1	SP 2	4
Hand Tool Cleaning	OC St 2	OC St 2	SP 3	-
Rusted	OC St 2	OC St 2	SP 3	-
Pitted & Rusted	OC St 3	OC St 3	SP 3	-
Rusted	OC St 3	OC St 3	SP 3	-
Power Tool Cleaning	OC St 3	OC St 3	SP 3	-
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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions:

After surface has been prepared, mix Part A (base) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material. Combine Part A (base) and Part B (hardener) and mix with low speed drill and Jiffy mixer for 30 seconds to 1 minute, until uniform. Slowly pour 12 lbs. Part C aggregate and blend materials for a maximum of 2-3 minutes, until uniform and no lumps remain. Immediately pour mixed material onto the substrate and pull out using a flat trowel. Back roll with a loop roller to assist leveling. The last few strokes should always be in the same direction. Allow material to self-level (2-5 minutes). Broadcast sand (not included) to desired texture (optional).

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

Recommended Spreading Rate per coat:

Coverage: Approximately 6-7 sq ft per kit @ 3/16" thickness

Drying Schedule:

@ 72°F/22°C

50% RH

To touch: 3-4 hours

Foot traffic: 6-8 hours

To recoat/sand: 4-5 hours

Full service: 10-12 hours

Full cure: 48 hours

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

Pot Life: 10-15 minutes (2 minutes in mass)

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 Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

Spreading rates are calculated on theoretical thickness 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.

Can be applied to damp concrete.

Do not mix partial kits.

Do not mix previously catalyzed material with new.

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

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