

The "Heavy Duty"
Polyurea Joint Filler for
Class 5 - 9 Industrial Floors

SPAL-PRO RS 88

RS-1

TECH DATA

1. Product Name

SPAL-PRO RS 88

2. Manufacturer

METZGER/McGUIRE

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3. Product Description

Composition

Spal-Pro RS 88 is a rapid setting, two-component polyurea polymer liquid of 100% solids content. When cured, Spal-Pro RS 88 is a gray, rubberlike solid with a hardness of Shore A88-92.

Basic Use

Spal-Pro RS 88 was developed to fill and protect joints in industrial concrete floors that are subject to hard wheels and heavy loads. Its primary function is to support such traffic and support joint edges. Spal-Pro RS 88 is designed for use in areas where final temperatures are from 32°F (0°C) to +120°F (49°C).

Other Uses

Spal-Pro RS 88 is also ideal for filling random cracks in industrial floors.

4. Limitations

Spal-Pro RS 88 should be installed after the area has been stabilized at ultimate operating temperature, preferably for 7 days or longer.

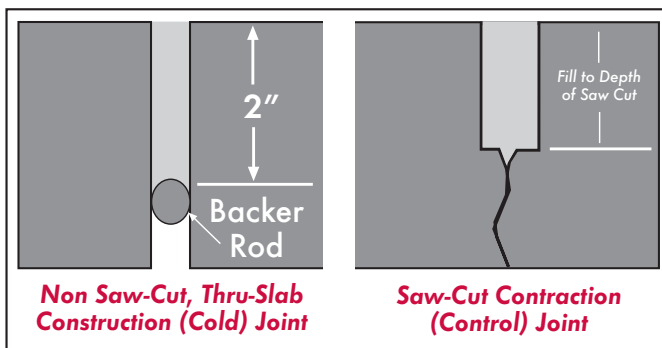
Spal-Pro RS 88 may discolor if subjected to UV rays from sunlight or certain lighting systems.

Spal-Pro RS 88 is not recommended for use under VCT or other seamless flooring systems.

5. Correct Joint Design/Installation

Spal-Pro RS 88 should be installed full joint depth in saw-cut contraction/control joints (or 2" min. in saw-cut joints exceeding 2" in depth) per PCA and ACI guidelines.

In construction (formed) joints that are not saw-cut, RS 88 should be installed at a minimum 2" depth. If shrinkage crack is excessive and needs to be "choked off", it may be sealed with clean, dry silica sand as shown below.



TECHNICAL INFORMATION

	TEST METHOD	RESULTS
HARDNESS, SHORE "A" @ 70°F	D-2240	A88-92
TENSILE STRENGTH	D-638	930 PSI
TENSILE ELONGATION* (@ 70°F)	D-638	170%
ADHESION TO CONCRETE	D-4541	350-400 PSI
TACK FREE @ 70°F	-	15 Minutes
TRAFFIC READY @ 70°F	-	1 - 2 Hours
MIX RATIO (by vol.)	-	1:1
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

* This property provided only for comparison with other polyureas.
Elongation is never an indication of expansion capability.

5. Correct Joint Design/Installation (Continued)

**DO NOT USE COMPRESSIBLE BACKER ROD
IN STANDARD SAW CUT CONTRACTION/CONTROL JOINTS!**
Compressible rod may be used 2" down in construction joints or saw cut joints exceeding 2" in depth **ONLY**.

6. Color and Packaging

Standard colors are Medium Gray and Mocha Brown. Available in 10 gal. (US) kits (2-5 gal. US pails), 100 gal. (US) kits (2-50 gal. US drums), and 1500 ML (750:750) dual-cartridge convenience kits. Custom colors are available. Please contact us for details.

7. Applicable Specifications

There are no government or ASTM standards for floor joint fillers. Spal-Pro RS 88 meets and/or exceeds the floor joint filler guidelines set forth by the American Concrete Institute (302.1 R-04 Guide for Concrete Floor and Slab Construction, ACI Committee 302), ACI 360 and Portland Cement Assoc. (Concrete Floors on Ground, Third Edition 2001, James A. Farny, PCA).

8. Advantages

- **Spal-Pro RS 88 is Rated "Heavy Duty"**
Unlike softer polyureas, RS 88's higher shore hardness provides greater edge protection and support.
- **Spal-Pro RS 88 is "Rapid-Setting"**
At 70°F (21°C) it can be opened to full traffic in as little as (60) minutes and light traffic in (30) minutes.
- **Spal-Pro RS 88 is a "Superior Formulation"**
RS 88 provides consistent cure and quality in multiple temperature environments.

Because of its longer initial gel time, RS 88 more thoroughly penetrates the concrete substrate, allowing for greater adhesion to joint walls prior to cure and enhancing the filler's lateral movement capability.

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Customer Service - (800) 223-MM80 - Technical Assistance

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9. USDA/FDA/LEED® Approval

Spal-Pro RS 88 is acceptable for use in floors subject to USDA and FDA inspection and regulation. Spal-Pro RS 88 contains no VOC's (0%) and is fully compliant with LEED® green building standards.

10. Technical Assistance

Complete technical support and literature are available from authorized distributors, through our web site (www.metzgermcguire.com) or by contacting our New Hampshire headquarters at (800)223-MM80.

11. Where to Specify and File

Spal-Pro RS 88 is exclusively for use in concrete floors and thus should always be referenced in 03251 (expansion/contraction joints) & 03300 (cast-in-place concrete). It is not a sealant and should not be specified as part of 07900, other than for cross reference.

12. Quality Installation Programs

Metzger/McGuire offers quality installation assurance programs for qualified projects. Contact Metzger/McGuire for specific information.

13. Availability

Spal-Pro RS 88 is available through quality construction supply distributors in most major cities (listing available at www.metzgermcguire.com) or through our New Hampshire headquarters.

14. Installation

The following instructions are abbreviated. Complete instructions are provided with each shipment.

When to Install

The installation of Spal-Pro RS 88 installation should be deferred as long as possible (ACI recommends slab cure of 60-90 days plus). In cooler temperatures, area should be stabilized at final operating temperature 7 days or more prior to installing Spal-Pro RS 88.

Joint Preparation

Joints should be completely free of saw laitance, dirt, debris, coatings/sealers and frost or visible moisture. Joint cleaning procedures must accomplish the removal of all of the above. Failure to do so will compromise adhesion. Simply "raking" debris out of joint is not an acceptable cleaning method. Preferred methods of joint cleaning include using a dustless concrete saw with diamond blade (ensure blade is slightly wider than joint or clean both sides) or sandblasting. No primer is needed. If unusual conditions are present, contact Metzger/McGuire.

Choking off the base of the joint is normally not required due to Spal-Pro RS 88's rapid set, but applicator may choke-off the shrinkage crack if it is excessively wide (as shown in Section 5). **Do not use compressible backer rod (Ethfoam, etc) in saw cut joints less than 2" deep.**

Prior to Dispensing

Caution: Thoroughly read MSDS and complete installation instructions prior to opening containers or attempting to dispense.

Spal-Pro RS 88 must be dispensed with dual-feed power dispensing equipment, or with pre-filled, dual-dispense cartridge kits. Manual dispensing is impractical due to short working life (2-3 minute gel time). Power dispensing systems should be set to a 1:1 ratio by volume. If installing in cooler temperatures, material should be maintained at a minimum temperature of 75° F (24° C) for best results. We recommend the use of a 1/2" diameter (ID) static mixer with 32 elements or more for material dispensing and proper mix. We strongly recommend performing periodic ratio checks on power dispense units to ensure proper cure.

Material provided in drums or pails should be thoroughly mixed to redistribute any settlement that may have occurred during shipping or storage. Cartridges should be shaken aggressively to accomplish same.

14. Installation (continued)

Dispensing

Fill joint from bottom to top, preferably using a dispensing tip that fits into the joint. Take care not to entrap air bubbles. Joint can be filled using either a one or two pass technique. The RS 88 should overfill the joint, leaving a crowned profile, and allowed to cure. The crown may be easily razored off in 1 to 2 hours, leaving a profile that is flush with the floor's surface. If RS 88 razoring is delayed and material becomes difficult to shave smoothly, apply a small amount of heat as you razor material off.

Should filler cure below the floor surface (due to settlement into the void at base of joint, etc.), abraid surface of filler and apply additional filler.

RS 88 overfill may leave a slight stain on concrete. The degree of staining will depend on the surface density of the slab. The stain will generally fade as a result of subsequent traffic and floor cleaning procedures. If staining is a concern, apply Metzger/McGuire's SPF (Stain Preventing Film) prior to filling joints.

Clean-Up

Spills of unmixed components can be cleaned up with solvent (MEK, denatured alcohol, etc) or scraped/shaved off floor and tools if cured.

15. Maintenance

Once cured, Spal-Pro RS 88 is basically maintenance free. If joints should open after installation, fill voids with additional Spal-Pro RS 88. Refer to Joint Filler Tech Series Sheet T-5 for additional information on joint filler separation causes and corrections.

16. Approximate Coverage Rates

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal
1/8" x 1 1/2"	100	3 x 38	30
1/8" x 1 3/4"	85	3 x 44	26
1/8" x 2"	75	3 x 50	23
3/16" x 3/4"	135	5 x 19	41
3/16" x 1"	100	5 x 25	30
3/16" x 1 1/4"	85	5 x 31	26
3/16" x 1 1/2"	70	5 x 38	21
3/16" x 1 3/4"	60	5 x 44	18
3/16" x 2"	50	5 x 50	15
1/4" x 1"	80	6 x 25	24
1/4" x 1 1/4"	60	6 x 31	18
1/4" x 1 1/2"	50	6 x 44	14
1/4" x 1 3/4"	45	6 x 50	12
1/4" x 2"	40	9 x 25	15

17. Safety

This product is for industrial use only. Use only in well ventilated areas. Practice all normal jobsite safety precautions (clear work area, etc). Refer to MSDS and installation instructions for more information.

18. Food Related Facilities

USDA prohibits the use of any chemicals in areas where existing food or food packaging is present and can be contaminated. Contact Metzger/McGuire to discuss project details if contamination is a concern.

19. Material Warranty

WARRANTY: Metzger/McGuire Co. solely and expressly warrants that its Spal-Pro RS 88 shall be free from defects in material and workmanship for 180 days from the date of purchase. Unless authorized in writing by an officer of Metzger/McGuire, no other representations or statements made by Metzger/McGuire or its representatives, in writing or orally, shall alter this warranty. Metzger/McGuire makes no warranties, implied or otherwise, as to the merchantability or fitness for ordinary or particular purposes of its products and excludes the same. If any Metzger/McGuire product fails to conform with this warrant, Metzger/McGuire will replace the product at no cost to the purchaser. Purchaser's sole remedy in any case shall be limited to the purchase price or replacement cost of product and specifically excludes labor and the cost of labor, lost wages and opportunity costs, and all other possible incidental, consequential or special damages resulting from any claim of breach of warranty, breach of contract, negligence or any legal theory. Any warranty claim must be made within one (1) year from the date of material purchase. Metzger/McGuire does not authorize anyone on its behalf to make any written or oral statements which in any way alter the installation procedures or written installation instructions published in its product literature or on its packaging labels. Any installation of Metzger/McGuire products which fails to conform with such installation information or instructions shall void this warranty. Purchaser shall be solely responsible for determining the suitability of Metzger/McGuire's products for the purchaser's intended purpose.

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