

SPAL-PRO RS 88

Semi-Rigid Polyurea Joint Filler

Heavy Duty Semi-Rigid Polyurea Joint Filler
for Class 5-9 Industrial Concrete Floors

TECHNICAL DATA RS-1

USGBC LEED® EQ Credit 4.1 - Low Emitting Sealant

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 is not recommended for use under VCT or other non-breathing flooring systems.

Spal-Pro RS 88 is designed for interior use and may not be suitable for outdoor applications due to thermal movement.

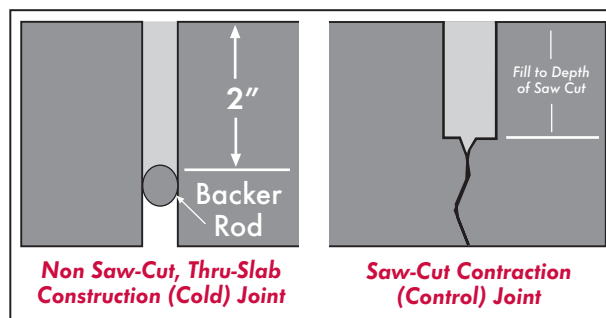
Spal-Pro RS 88 may exhibit bubbling and/or compromised adhesion if concrete or ambient moisture levels are excessive.

5. 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 Colorfast**
RS 88 maintains a consistent color profile and resists fading and other discoloration under normal conditions.
- **Spal-Pro RS 88 is Non-Staining**
In normal slab surface conditions, RS 88 does not exhibit residual concrete staining often associated with semi-rigid fillers.

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

7. Color, Packaging and Accessories

Standard color is Medium Gray, custom colors are also available. Available in 10 gal. (US) kits (2-5 gal. US pails) and 600 ML (300:300) dual-cartridge convenience kits.

Optional FAST PACK is available to accelerate initial gel time.

8. Applicable Specifications

There are no government or ASTM standards for industrial floor joint fillers. Spal-Pro RS 88 meets 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 360 and Portland Cement Assoc. (*Concrete Floors on Ground, Third Edition 2001*).

9. USDA/FDA/CFIA/LEED® Approval

Spal-Pro RS 88 is acceptable for use in USDA, FDA, and CFIA regulated facilities. Spal-Pro RS 88 contains no VOC's and is fully compliant with USGBC LEED® green building standards.

10. TECHNICAL PROPERTIES

	TEST METHOD	RESULTS
HARDNESS, SHORE "A" @ 70 °F	D-2240	A86-90
TENSILE STRENGTH	D-638	970 PSI
TENSILE ELONGATION* (@ 70 °F)	D-638	180%
ADHESION TO CONCRETE	D-4541	350-400 PSI
TACK FREE @ 70 °F	-	5 Minutes
TRAFFIC READY @ 70 ° F	-	1 Hour
MIX RATIO (by vol.)	-	1:1
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

* This property provided only for comparison with other polyureas.
Elongation is not an indication of expansion capability.

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

E-Mail: specmm80@aol.com • Web Site: www.metzgermcguire.com

11. 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.

12. 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.

13. Quality Installation Programs

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

14. Availability

RS 88 is available through quality construction supply distributors (listing at www.metzgermcguire.com) or through our NH headquarters.

15. Installation

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

When to Install - The installation of Spal-Pro RS 88 should be deferred as long as possible after slab placement and should not be installed prior to 30 days to ensure adequate adhesion. ACI recommends a slab cure of 60-90 days or longer to permit for greater concrete shrinkage/joint opening, lessening the expected incidence of joint filler separation. Ambient areas should be stabilized at final operating temperature prior to installation, refrigerated/frozen goods areas stabilized and held for an additional 7-14 days or longer if possible. Refer to *Technical Bulletins T5 (Installation Timing)* and *T6 (Filler Timing for Refrigerated Areas)* for additional information.

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. **Do not use compressible backer rod (Ethafom, etc) in saw cut joints less than 2" deep.**

Prior to Dispensing - 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 (1-2 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 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.

Pump tanks, lines and dispensing manifold should be clean and free of any residual materials remaining from previous filler installations.

15. Installation (continued)

Dispensing

Joints can be filled in one or two passes, depending upon joint depth and dispensing tip used. Preferred method is to fill from bottom to top using a dispensing tip that fits into the joint. Take care not to entrap air bubbles. Slightly overfill the joint, leaving a crowned profile, and allow to cure.

The crown may be easily razored off as early as 15 minutes after placement, depending upon temperature. We recommend testing various shave times to find the optimal shave which results in a filler profile that is flush with the floor's surface and free of any film from material overfill. If shave time is substantially delayed or if temperatures are low, RS 88 shaving process may be more labored.

Should filler cure below the floor surface (due to settlement into the void at base of joint, etc.), remove top 1/2" of filler and re-apply RS 88.

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.

16. 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 *Technical Bulletin T11 (Joint Filler Separation; Causes & Correction)* for additional information.

17. 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

18. 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.

19. Food Related Facilities

RS 88 is acceptable for use in facilities regulated by USDA/FDA/CFIA. Contact us to discuss project details if contamination is a concern.

20. 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.