



Heavy-Duty Polyurea Repair Polymer
for Class 6, 7, 8 & 9 Industrial Floors

TECHNICAL DATA

SP-1

USGBC LEED® EQ Credit 4.1 - Low Emitting Sealant

1. Product Name **SPAL-PRO 2000**

2. Manufacturer **METZGER/MCGUIRE**

PO Box 2217 Concord, NH 03302 (USA) Phone: 603-224-6122
Fax: 603-224-6020 Web: www.metzgermcguire.com

3. Product Description

Composition

Spal-Pro 2000 is a rapid-setting, two-component polyurea polymer liquid of 100% solids content. When cured, **Spal-Pro 2000** is a charcoal gray solid with a hard rubber-like hardness of A-95.

Basic Use

Spal-Pro 2000 is ideal for the repair of spalled joints, filling random cracks and patching gouges, holes and surface defects, etc. **Spal-Pro 2000** can also be used 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 without deflecting. **Spal-Pro 2000** can be used in ambient or freezer applications.

4. Limitations

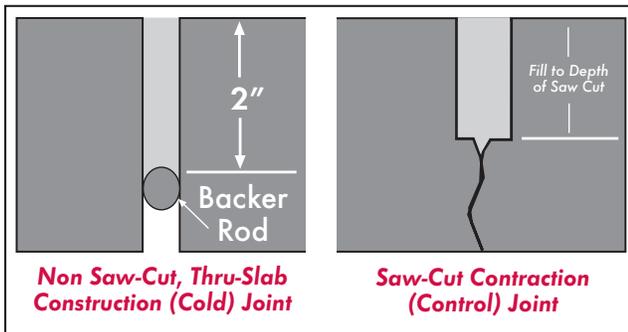
- **Spal-Pro 2000's** expansion capability is limited due to its supportive hardness and compressive strength (see section 14).
- **Spal-Pro 2000** is intended for interior use. It is *not* UV resistant. Sunlight or lights emitting UV rays may cause discoloration.
- Not recommended for use under VCT/seamless floor systems.

5. Correct Joint Design/Installation

Spal-Pro 2000 should be installed full depth in saw-cuts or 2" (50 mm) deep in formed joints per PCA and ACI guidelines. Because of its rapid set, "choking off" the base of the joint is normally not necessary. If shrinkage crack is excessive, it may be "choked off" as shown below (contractor's option). Do not use compressible backer rod (Ethafoam, etc.) in saw-cut joints. Compressible rod may be used 2" down in construction (formed) joints.

6. Color and Packaging

Standard color is medium (charcoal) gray. **Spal-Pro 2000** is available in 15 gallon (US) kits (for bulk dispensing machines) and dual-cartridge convenience kits (450 ML & 900 ML).



FOR COMPREHENSIVE REPAIR SPECIFICATIONS,

REFER TO Metzger McGuire's **GUIDE TO BASIC FLOOR REPAIRS**

TECHNICAL INFORMATION

	TEST METHOD	RESULTS
HARDNESS, SHORE "A"	D-2240	95 (-0, +5)
HARDNESS, SHORE "D"	D-2240	50 (-0, +5)
TENSILE STRENGTH	D-638	2850 PSI
ADHESION TO CONCRETE	D-4541	350 PSI
TACK FREE @ 65°F (18°C)	-	3 - 5 MINS.
LIGHT TRAFFIC READY @ 65°F	-	15 MINS.
FULL TRAFFIC READY @ 65°F	-	30 MINS.
MIX RATIO (by vol.)	-	2:1
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

7. Applicable Specifications

There are no government or ASTM standards for semi-rigid joint fillers. **Spal-Pro 2000** meets or exceeds the criteria outline in the following industry standards:

American Concrete Institute (ACI) Guides/Specifications:
301-16, 302.1-R15, 310-R13, 360R-10
Portland Cement Association (PCA):
Concrete Floor on Ground, Third Edition 2008

8. Advantages

- **Spal-Pro 2000** is Rated "Heavy-Duty"
Unlike other flexible polyureas, it will not deflect under loads, allowing joint edges to deteriorate (spall).
- **Spal-Pro 2000** is "Rapid Setting"
You can expose **Spal-Pro 2000** to moderate traffic loads in fifteen (15) minutes and full, heavy traffic in thirty (30) minutes.
- **Spal-Pro 2000** is for "All Temperatures"
It can be used in coolers/freezers down to minus 20°F (-29°C), in ambient settings or at temperatures up to 120°F (49°C), all with equally successful results.
- **Spal-Pro 2000** is a "Superior Formulation"
You get consistent cure and quality in all environments; no uncured strips, no soft, hard spots as with some other polyureas.
- **Spal-Pro 2000** Comes with a "Legacy"
For 30+ years, Metzger/McGuire has been the unequaled leader in floor joint protection technology and technical/field support.

9. USDA/FDA/CFIA/LEED® Approval

Spal-Pro 2000 contains no VOC's and is acceptable for use in floors subject to USDA/FDA and CFIA inspection and regulation and is compliant with LEED® Green Building Standards.

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

E-mail: info@metzgermcguire.com • Web Site: www.metzgermcguire.com

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 2000 is exclusively for use in concrete floors and thus should always be referenced in 03251 (expansion/contraction joints) & 03300 (cast-in-place concrete).

12. Availability

Spal-Pro 2000 is available through quality construction supply distributors in most major cities (locations available at www.metzgermcguire.com or through our New Hampshire headquarters).

13. Installation

The following instructions are **ABBREVIATED**. Complete instructions are provided with each shipment.

Joint Preparation - Joints should be free of saw laitance, dirt, debris, frost and/or visible moisture. Joint cleaning procedures must accomplish the removal of all of the above, failure to do so could compromise adhesion. Coating and sealers must also be removed from the inner joint walls. No primer is needed under normal circumstances.

Choking off the base of the joint is normally not required due to **Spal-Pro 2000's** rapid set. Applicator may at his option choke-off the shrinkage crack if it is excessively wide (as shown in joint design spec, section 5). Do not use compressible backer rod in saw-cut joints less than 2" deep.

Dispensing in Ambient Temperature - CAUTION: Read SDS and complete installation instructions shipped with product prior to opening container or attempting to dispense. **Spal-Pro 2000** must be dispensed with dual feed power dispensing equipment, or with pre-filled dual-cartridge convenience kits. Manual dispensing is impractical due to short working life (2 minute gel time). Power pump systems should be set at a 2:1 ratio by volume and use a 1/2" (12 mm) diameter static mixer with 30 or 32 elements.

Prior to Dispensing - Material provided in drums or pails should be thoroughly mixed with drill and paddle to redistribute any settlement that occurred during shipment. Cartridges should be aggressively shaken.

Spal-Pro 2000 is a two component material that is to be blended at a ratio of 2A:1B by volume. Fill repair, taking care not to entrap large air bubbles. The recommended procedure is to overfill (crown) and allow to cure. Crown can later be razored-off, leaving top of filler flush with floor surface. Razoring can be performed in as little as 15 minutes. Should filler cure below floor surface, abrade top of filler and apply additional material.

Large Mass Applications - **Spal-Pro 2000** releases heat as it cures (exotherm), with heat generated being in proportion to material mass. Too much exotherm can cause material to shrink in mass. If applying in applications that are wide and deep, layering is recommended. Apply in 1/2" thick layers, allowing 30 minutes between layers.

Installation Below Freezing - Temperatures below 32°F (0°C) will slow cure rate. When performing low temperature installations apply band-heaters to drums and pails and pre-warm, to 90°F - 100°F (33°C - 38°C). Power dispensing equipment should be equipped with insulated reservoir tanks and heated feed lines. For dual cartridges, warm cartridges to (90°F - 100°F, 33°C - 38°C) using heater box, heated water, etc.

Installation in High Temperatures - Extremely high temperatures may shorten gel time and accelerate cure. If material is curing too rapidly, cool in chilled water or by similar means.

Bubbles in Cured Filler - Bubble entrapment is possible due to fast cure rate. Pinhead bubbles, if they occur, will not affect durability-in-service.

Finished Profile

Cured filler can be shaved to level, flush with the floor surface with razor. Wide applications not easily razored can be sanded flush with a belt-sander using 40, 60, or 80 grit paper.

Cleanup

Spills of unmixed components can be cleaned up with solvent (Toluol, Xylol, MEK, Denatured Alcohol, etc). Cured product can be scraped or shaved off floor and tools.

14. Maintenance

Once cured, **Spal-Pro 2000** is essentially maintenance free. In floors with moving joints, adhesive (filler-to-concrete) or cohesive separation may occur. Refer to [Technical Bulletin T11 \(Joint Filler Separation; Causes & Correction\)](#) for additional information. Separations exceeding credit card width can be corrected by cleaning and refilling voids with additional **Spal-Pro 2000** or **Spal-Pro RSF**.

15. Coverage

Joint Size (US)	LF/Gal.	Joint Size (Metric)	M/Gal
1/8" x 1 1/4"	125	3 x 31	38
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 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
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
1/2" x 1"	40	13 x 25	12

16. Shelf Life and Storage

Spal-Pro 2000 has a guaranteed shelf life of 365 days if containers remain unopened. Store in dry, cool areas away from excessive heat, freeze/thaw and sunlight. See complete installation instructions for info.

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 SDS and installation instructions for more information.

18. Food Related Facilities

Please contact us to discuss suitability of this product in areas where existing food or food packaging could potentially be contaminated.

19. Material Warranty

WARRANTY: Metzger/McGuire Co. solely and expressly warrants that its Spal-Pro 2000 shall be free from defects in material and workmanship for 365 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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