

SPALL PRO 2000 TECHNICAL DATA SP-1

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



1. PRODUCT NAME

Spall-Pro 2000

2. MANUFACTURER

Metzger/McGuire

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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 grey solid with a hard rubber-like hardness of A-95.

Basic Use

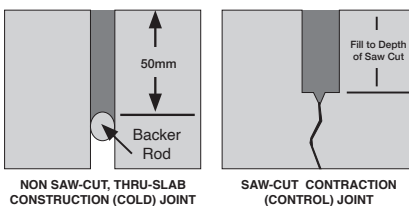
Spal-Pro 2000 is ideal for the repair of spalled joints, filling random cracks and patching gouges, holes and surface defects, etc. **Spal-Pro 2000** can also be used to fill and protect joints in industrial concrete floors that are subject to hard wheels and heavy loads. Its primary function is to support 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.
- **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 50mm 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 (Ethafom, etc.) in saw cut joints. Compressible rod may be used 50mm down in construction (formed) joints.



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 @ 18°C	-	3-5 mins
LIGHT TRAFFIC READY @ 18°C	-	15 mins
FULL TRAFFIC READY @ 18°C	-	30 mins
MIX RATIO (by vol.)	-	2:1
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

6. COLOUR AND PACKAGING

Standard colour is medium (charcoal) gray. **Spal-Pro 2000** is available in 56L kits (for bulk dispensing machines) and dual-cartridge convenience kits (450ML & 900ML).

7. APPLICABLE SPECIFICATIONS

There are no government or ASTM standards for floor joint fillers. **Spal-Pro 2000** meets and/or exceeds the floor joint filler guidelines set forth by ACI 302 (Guide for Concrete Floor and Slab Construction, ACI report 302.1 R-04), ACI 360 and PCA (Concrete Floors on Ground, Ralph E. Spears, PCA).

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 -29°C, in ambient settings or at temperatures up to 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, or hard spots as with some other polyureas.
- **Spal-Pro 2000** Comes with a "Legacy"
For 30+ years, Metzger/McGuire has been the unequalled leader in floor joint protection technology and technical/field support.

9. COLOUR AND PACKAGING

Spal-Pro 2000 contains no VOCs 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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10. TECHNICAL ASSISTANCE

Complete technical support and literature are available from Lesa Systems 2017 LTD.

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) and 03300 (cast-in-place concrete).

12. AVAILABILITY

Spal-Pro 2000 is available through Lesa Systems 2017 LTD

13. INSTALLATION

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. Do not use compressible backer rod in saw cut joints less than 50mm 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 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 12mm thick layers, allowing 30 minutes between layers.

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

17. APPROX. COVERAGE RATES

JOINT SIZE (METRIC)	Mtr/L
3mm x 38mm	7.9
3mm x 44mm	6.8
3mm x 50mm	6
3mm x 19mm	10.8
3mm x 25mm	7.9
3mm x 31mm	6.8
3mm x 38mm	5.5
3mm x 44mm	4.7
3mm x 50mm	3.9
3mm x 25mm	6.3
3mm x 31mm	4.7
3mm x 44mm	3.7
3mm x 50mm	3.1
3mm x 25mm	3.9

15. 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.

16. 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.

17. FOOD RELATED FACILITIES

This product is for industrial use only. Use only in well Please contact us to discuss suitability of this product in areas where existing food or food packaging could potentially be contaminated.

18. 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 authorised 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 labour and the cost of labour, 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 authorise 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.