

Semi-Rigid Epoxy Joint Filler
for Industrial Floors

XL-1

1. Product Name
EDGE-PRO XL
(Formerly labeled Spal-Pro XL)

USGBC LEED® EQ Credit 4.1
Low Emitting Sealant

2. Manufacturer
METZGER/McGUIRE
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3. Product Description*Composition*

EDGE-PRO XL is a two-component, 100% solids content epoxy joint filler. When cured, EDGE-PRO XL is a gray, semi-rigid (like very hard rubber) filler with a hardness of Shore A85-95.

Basic Use

EDGE-PRO XL was developed to fill and protect joints in industrial concrete floors that are subject to hard wheeled traffic. Its primary function is to support such traffic and protect joint edges. EDGE-PRO XL is designed for use in areas where final temperatures are from 50°F (10°C) to +120°F (49°C).

4. Limitations

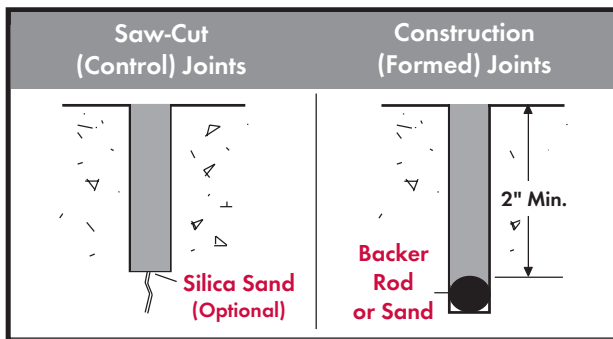
EDGE-PRO XL is not designed for use in:

- True expansion joints
- Exterior joints (paving, etc.)
- Freezer/cooler joints
- Joints under VCT/seamless flooring systems (in most settings)

EDGE-PRO XL may change color if subjected to UV rays from sunlight or certain lighting systems.

5. Correct Joint Design/Installation

EDGE-PRO XL should be installed full joint depth in saw-cut control joints (or 2" min. in joints where depth exceeds 2") per PCA and ACI guidelines. In construction (formed) joints that are not saw-cut, EDGE-PRO XL should be installed 2" deep. If shrinkage crack is excessive and needs to be "choked off", it may be sealed with clean, dry silica sand as shown below (contractor's option).



DO NOT USE COMPRESSIBLE BACKER ROD IN SAW CUT CONTROL JOINTS.

Compressible rod may be used 2" down in construction joints.

FORMERLY SPAL-PRO XL

TECHNICAL INFORMATION

| | TEST METHOD | RESULTS |
|--------------------------------|-------------|-------------|
| HARDNESS, SHORE "A" @ 70°F | D-2240 | A85-95 |
| HARDNESS, SHORE "D" @ 70°F | D-2240 | D50-55 |
| TENSILE STRENGTH | D-638 | 735 PSI |
| TENSILE ELONGATION* (@ 70°F) | D-638 | 121% |
| ADHESION TO CONCRETE | D-4541 | 385 PSI |
| POT LIFE @ 70°F | - | 15-20 Mins. |
| INITIAL CURE @ 70°F | - | 4-8 Hours |
| LIGHT TRAFFIC READY @ 70°F | - | 4-8 Hours |
| FULL TRAFFIC READY @ 70°F | - | 8-12 Hours |
| MIX RATIO (by vol. and weight) | - | 1:1 |
| SOLIDS CONTENT | - | 100% |
| SHRINKAGE | - | Negligible |

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

6. Color and Packaging

Standard color is concrete (charcoal) gray. Available in 2 gal. (US) kits (2-1 gal. US cans) and 10 gal. (US) kits (2-5 gal. US pails).

7. Applicable Specifications

There are no government or ASTM standards for floor joint fillers. EDGE-PRO XL 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-96*), ACI 360 and PCA (*Concrete Floors on Ground*, Ralph E. Spears, PCA).

8. Advantages

EDGE-PRO XL is an excellent economical alternative to our heavy duty MM-80 for many floor applications.

EDGE-PRO XL is sufficiently rigid to carry loads over joints and protect edges from spalling, yet remains slightly resilient to aid in absorbing wheel impact and avoiding brittleness.

EDGE-PRO XL exhibits low range tensile and adhesive strengths, characteristics necessary to allow the joints to open as the concrete shrinkage progresses.

EDGE-PRO XL is an excellent selection as a joint filler to be used under tile and other floor coverings. It will support the floor covering when under load and will not be adversely affected by the covering adhesive.

EDGE-PRO XL, best of all, is formulated with the high quality components you expect from Metzger/McGuire, the name known worldwide for optimum floor joint protection.

UPDATED 10/08

9. USDA/FDA/CFIA/LEED® Approval

EDGE-PRO XL is acceptable for use in floors subject to USDA/FDA and Environment Canada/CFIA regulation. *Edge-Pro XL contains no VOC's (0%) and is in full compliance 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

EDGE-PRO XL 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

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

14. Installation

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

When to Install

The installation of EDGE-PRO XL installation should be deferred as long as possible (ACI recommends slab cure of 60-90 days plus). A minimum slab cure of 30 days is also recommended. Area should preferably be stabilized at final operating temperature prior to installation. Refer to [Technical Bulletin T5 \(Installation Timing\)](#) 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.

The applicator may, at his option, choke-off the shrinkage crack at the base of the joint with a 1/4" maximum layer of clean, dry silica sand. **Do not use compressible backer rod (Ethafom, etc) in saw cut joints.** The applicator may use a compressible backer rod in through-slab construction (cold) joints ONLY, and if used the rod must be placed at a minimum depth of 2" below floor surface.

If possible concrete staining from joint filler overfill is an issue, apply Metzger/McGuire's SPF (stain preventing film) prior to material installation, being careful to prevent SPF from entering joints as it may compromise adhesion. If SPF enters joints, clean joints as outlined previously.

Prior to Dispensing

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

Mixing

Use a drill at low RPM and a paint mixing paddle (Jiffy or similar) to mix XL. Mix both components thoroughly separately before combining. Combine Part A and Part B and mix for approximately 1 1/2 minutes or until thoroughly blended. Do not dilute or alter material. Mix entire kit.

Dispensing

EDGE-PRO XL has a viscosity similar to a medium weight motor oil. It can be poured from can, but best results are obtained by dispensing material through a bulk-type caulking gun or dual-component dispensing pumps ratioed at 1:1. Use of gun or dispensing machine ensures a neater application and full depth penetration. EDGE-PRO XL should be installed using a two pass method. The first pass should fill the joint to within 1/2" of the floor surface. Within 30-60 minutes overfill joint with a second pass. Check joints occasionally for low spots and refill.

Allow material to cure into solid (approx. 4-8 hours minimum) and shave material flush with floor surface. Heat material lightly with propane torch or other heating source prior to shaving to ease the shaving process and ensure a smoother filler profile. Always use respirator mask when heating cured epoxy.

Any overfill not removed during razoring may leave a slight stain on concrete. The degree of staining will depend on the surface density (porosity) of the slab. The stain will gradually fade as a result of subsequent traffic and floor cleaning procedures.

Clean-Up

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.

15. Maintenance

Once cured, EDGE-PRO XL is basically maintenance free. If joints should open after installation due to concrete shrinkage, fill voids with additional EDGE-PRO XL or M/M's *Spal-Pro RS 88*. Refer to [Technical Bulletin T11 \(Joint Filler Separation; Causes & Correction\)](#) for additional information.

16. Approximate Coverage

| Joint Size (US) | LF/Gal. | Joint Size (Metric) | M/Gal |
|-----------------|---------|---------------------|-------|
| 1/8" x 1" | 150 | 3 x 25 | 46 |
| 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 |
| 3/16" x 2" | 50 | 5 x 50 | 15 |
| 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. Shelflife and Storage

EDGE-PRO XL has a guaranteed shelf life of one (1) year if containers remain unopened. Store in dry, cool areas.

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). Thoroughly read and understand MSDS and installation instructions for additional information prior to using material.

19. Use in Food Related Facilities

USDA restricts the use of chemicals in areas where existing food or food packaging can be contaminated. Confirm USDA compliance regulations prior to installation in the presence of food products/packaging.

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WARRANTY: Metzger/McGuire Co. solely and expressly warrants that its product shall be free from defects in material and workmanship for 12 months 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.