

EDGE-PRO 80

SEMI-RIGID POLYUREA JOINT FILLER

Moderate-Duty, Semi-Rigid Polyurea Joint Filler
for Retail and Warehouse Concrete Floors

TECHNICAL DATA

EP-1

USGBC LEED® EQ Credit 4.1 - Low Emitting Sealant

1. Product Name

EDGE-PRO 80

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

Edge-Pro 80 is a two-part, 100% solids, rapid-setting polyurea polymer liquid system. When cured, **Edge-Pro 80** is a rubberlike solid with a hardness of Shore A 80-81.

Basic Use

Edge-Pro 80 was developed to fill and protect joints in exposed concrete retail floors and in moderate-duty warehouse concrete floors. Its primary function is to protect joint edges from spalling under material handling vehicle traffic. **Edge-Pro 80** is intended for use where final operating temperatures are from -20°F (-29°C) to +120°F (49°C).

Other Uses

Edge-Pro 80 is also ideal for filling random cracks in exposed concrete retail floors and in moderate-duty warehouse concrete floors.

4. Limitations

Edge-Pro 80 is not recommended for use under VCT or other non-breathable flooring systems.

Edge-Pro 80 is designed for interior use and may not be suitable for outdoor applications due to thermal movement.

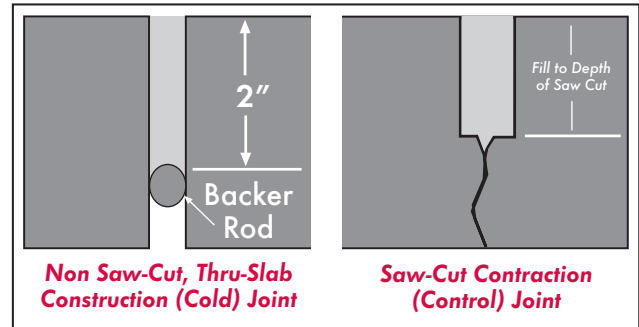
5. Advantages

Edge-Pro 80's revolutionary new chemistry provides for superior substrate adhesion, moisture tolerance and a flusher finished profile compared to similar polyurea joint fillers.

- **Edge-Pro 80 Finishes Flush with the Floor Surface**
Edge-Pro 80's chemistry permits for a wide shave window (15 min. to 24 hrs.) in which the installer can razor off overfill and achieve a consistently flush profile with floor surface.
- **Edge-Pro 80 is Moisture Tolerant**
Edge-Pro 80 will not react with moisture and its special adhesion enhancers permit adhesion to damp substrates with minimal compromise as compared to dry substrates.
- **Edge-Pro 80 is Colorfast**
Edge-Pro 80 maintains a consistent color profile and resists fading or discoloration under normal conditions.
- **Edge-Pro 80 is Ideal for Use in Stained/Polished Concrete Floors**
Edge-Pro 80 can be ground and polished as early as 3 hours after placement with no product smearing.
- **Edge-Pro 80 is Non-Staining**
In normal slab surface conditions, **Edge-Pro 80** does not exhibit residual concrete staining/shadowing often associated with semi-rigid joint fillers.

6. Correct Joint Design/Installation

Edge-Pro 80 should be installed full joint depth in saw-cut contraction/control joints (or 2" minimum in saw-cut joints exceeding 2" in depth) per PCA and ACI guidelines.



In construction (formed) joints that are not saw-cut, **Edge-Pro 80** 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 or saw-cut joints exceeding 2" in depth ONLY.

7. Color, Packaging and Accessories

Edge-Pro 80 is available in a neutral color which can be mixed with color packs to create 12 Popular Colors commonly used in retail exposed concrete floors. Available in 10 gallon (US) kits (2.5 gallon US pails) and 600 ML (300:300) dual cartridge kits.

8. Applicable Specifications

There are no government or ASTM standards for semi-rigid floor joint fillers. **Edge-Pro 80** meets or exceeds the floor joint filler guidelines set forth by the American Concrete Institute's technical committee guides 301-10, 302.1R-15, 310R-13, 360R-10 and the Portland Cement Association's (PCA) Concrete Floors on Ground (2008).

9. USDA/FDA/CFIA/LEED® Approval

Edge-Pro 80 is acceptable for use in USDA, FDA, and CFIA regulated facilities. **Edge-Pro 80** 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	80-81
TENSILE STRENGTH	D-638	505 psi
TENSILE ELONGATION	D-638	152%
VISCOSITY PART A POLYOL	-	1535 cP
VISCOSITY PART B ISO	-	2500 cP
TACK FREE @ 70°F	-	3 minutes
GEL TIME @70°F	-	35 seconds
TRAFFIC READY @70°F	-	1 hour
MIX RATIO (BY VOL.)	-	1:1

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

E-Mail: info@metzgermcguire.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

Edge-Pro 80 is exclusively for use in concrete floors and thus should always be referenced in 03251 (expansion/contraction joints) & 03300 (cast-in-place concrete). While not a sealant, referencing joint filler in 07900 can be helpful as a cross reference.

13. Quality Installation Programs

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

14. Availability

Edge-Pro 80 is available through quality construction supply distributors (listing at www.metzgermcguire.com) or through our New Hampshire headquarters.

15. Installation

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

Edge-Pro 80 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 (35 second gel time).

When to Install - The installation of **Edge-Pro 80** should be deferred as long as possible after slab placement, and should not be installed prior to 28 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 (Filler Installation Timing)** and **T6 (Filler Timing for Refrigerated Buildings)** 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 method of joint cleaning include using a dustless concrete saw with diamond blade (ensure blade is slightly wider than joint or clean both sides). No primer is needed. If unusual conditions are present, contact Metzger/McGuire.

Choking off the base of the joint is not required due to **Edge-Pro 80's** rapid set. **Do not use compressible backer rod (Ethafom, etc) in saw-cut joints less than 2" deep.**

Prior to Dispensing - Thoroughly read SDS and complete installation instructions prior to opening containers or attempting to dispense.

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 70°F (23°C) for best results. In warmer temperatures, cooling of product may be necessary. We recommend the use of a 1/2" diameter (ID) static mixer with 30 or 32 elements for material dispensing and proper mix. Performing periodic ratio checks on power dispense units to ensure proper cure is critical.

Part A polyol should be pre-mixed, using Jiffy Mixer or similar for 1.5 to 2 minutes. Color pack (if used) should be added at this stage and thoroughly blended.

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

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. If using two pass method, second pass should be done within 4 hours.

Finishing

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 overflow. If shave time is substantially delayed or if temperatures are low, **Edge-Pro 80** 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 **Edge-Pro 80**. Grinding/polishing operations should be deferred for 3-4 hours minimum, after placement.

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, **Edge-Pro 80** is basically maintenance free. If joints should open after installation, fill voids with additional **Edge-Pro 80**. Refer to **Technical Bulletin T11 (Joint Filler Separation; Causes & Corrections)** for additional information.

17. Approximate Coverage Chart

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 job site safety precautions (clear work area, etc). Refer to SDS and installation instructions for more information.

19. Food Related Facilities

Edge-Pro 80 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 **Edge-Pro 80** 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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