THE NEW INDUSTRY STANDARD FOR INDUSTRIAL CONCRETE FLOORS!

EDGE-PRO 90

HEAVY DUTY POLYUREA JOINT FILLER

For Industrial Concrete Floors

Edge-Pro 90's revolutionary new chemistry provides for heavy duty durability, a flush finished profile and better moisture tolerance than many comparable polyurea joint fillers.

Edge-Pro 90 Heavy Duty Polyurea Joint Filler is the first product to offer heavy duty performance and durability comparable to our legendary MM-80 Heavy Duty Epoxy Joint Filler and can fill and protect joint edges in the most demanding industrial floor settings such as warehouses, distribution centers and manufacturing facilities.

Edge-Pro 90 is a color stable joint filler which maintains a consistent color profile and resists fading, yellowing or other discoloration in normal conditions.

Please contact us at 800-223-6680 or email us at info@metzgermcguire.com for more information on THE NEW INDUSTRY STANDARD FOR INDUSTRIAL CONCRETE FLOORS

METZGER/McGUIRE

800.223.MM80 www.metzgermcguire.com

EDGE-PRO 90

HEAVY DUTY POLYUREA JOINT FILLER

For Industrial Concrete Floors

Heavy-Duty, Semi-Rigid Polyurea Joint Filler for Class 6-9 Industrial Concrete Floors

TECHNICAL DATA EP90-1

Low Emitting Sealant/Filler Complies with:
- *USGBC LEED Program – Zero VOC's*

1. Product Name
Edge-Pro 90

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

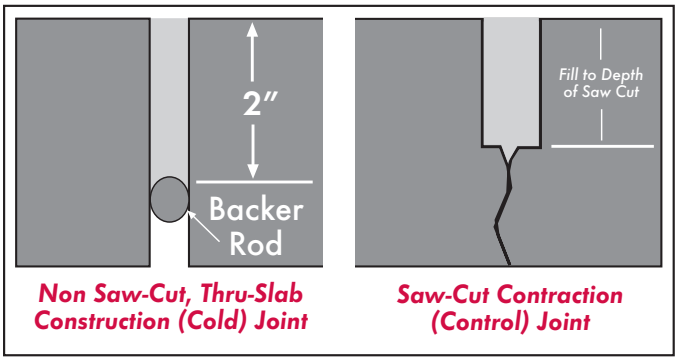
3. Product Description
Composition:
Edge-Pro 90 is a two-part, 100% solids, rapid-setting polyurea polymer liquid system. When cured, ***Edge-Pro 90*** is a rubberlike solid with a hardness of Shore A 90-92.

Basic Use:
Edge-Pro 90 was developed to fill and protect joints in heavy duty industrial concrete floors subjected to frequent and demanding traffic. Its primary function is to protect joint edges from spalling under material handling vehicle traffic. ***Edge-Pro 90*** is intended for use where final operating temperatures are 20°F (-7°C) to 120°F (49°C).

Other Uses:
Edge-Pro 90 is also ideal for filling/repairing random cracks and repairing joints in heavy duty industrial concrete floors.

4. Limitations
Edge-Pro 90 is not recommended for use under VCT or other non-breathable flooring systems.
Edge-Pro 90 is designed for interior use and may not be suitable for outdoor applications due to thermal movement.

5. Correct Joint Design/Installation
Edge-Pro 90 should be installed full joint depth in sawcut contraction/control joints (or 2" minimum in saw-cut joints exceeding 2" in depth) per PCA and ACI guidelines.



Non Saw-Cut, Thru-Slab Construction (Cold) Joint

Saw-Cut Contraction (Control) Joint

In construction (formed) joints that are not saw-cut, ***Edge-Pro 90*** 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.

6. Advantages
Edge-Pro 90's revolutionary new chemistry provides for heavy duty durability, a flush finished profile and better moisture tolerance than many comparable polyurea joint fillers.

- ***Edge-Pro 90 Finishes Flusher with the Floor Surface***
  Edge Pro 90's chemistry permits for a wider shave window in which the installer can razor off overfill and achieve a consistently flush profile with floor surface.

- ***Edge-Pro 90 is Less Reactive to Moisture***
  Edge-Pro 90 is less reactive to moisture than comparable polyurea fillers and its special adhesion enhancers permit better adhesion to moist substrates with minimal compromise as compared to dry substrates.

- ***Edge-Pro 90 is Colorfast***
  Edge-Pro 90 maintains a consistent color profile and resists fading, yellowing or other discoloration under normal conditions.

- ***Edge-Pro 90 Provides Unequalled Durability***
  Edge-Pro 90 is the first heavy duty polyurea to provide comparable properties and durability to our Industry Standard ***MM-80*** and ***MM-80P*** Heavy Duty Epoxy Joint Fillers. Additional benefits include rapid access time to floor areas, reduced material loss through joint shrinkage crack, and no heating of the material is required during the overfill removal operation.

7. Color, Packaging and Accessories
Standard color is Dovetail Gray. Additional colors options are available through special arrangement. Contact *Metzger/McGuire* for additional details. 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 90*** 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 90 is acceptable for use in USDA, FDA, and CFIA regulated facilities. ***Edge-Pro 90*** 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	90-92
TENSILE STRENGTH	D-638	920 psi
TENSILE ELONGATION	D-638	238%
VISCOSITY PART A POLYOL	-	1535 cP
VISCOSITY PART B ISO	-	2500 cP
TACK FREE @ 70°F	-	10-15 minutes
GEL TIME @70°F	-	45-50 seconds
TRAFFIC READY @70°F	-	45 minutes
MIX RATIO (BY VOL.)	-	1:1

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

12. Quality Installation Programs

Metzger/McGuire offers quality installation assurance programs for qualified projects, including our Gold Seal Program. Contact *Metzger/McGuire* for more information.

13. Availability

Edge-Pro 90 is available through quality 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. ***Edge-Pro 90*** 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 (45-50 second gel time).

When to Install

The installation of ***Edge-Pro 90*** 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 and T6 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 or vacuuming joint is not an acceptable cleaning method. Preferred methods of joint cleaning include using a dustless concrete saw with diamond abrasive 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 90's*** rapid set. Do not use compressible backer rod (Ethafoam, etc) in sawcut 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. 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, taking 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 while 1st pass is still tacky.

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 overfill. If shave time is substantially delayed or if temperatures are low, ***Edge-Pro 90*** 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 ½" of filler and re-apply ***Edge-Pro 90***.

Cleanup

Spills of unmixed components can be cleaned up with solvent (MEK, denatured alcohol, etc) or scraped/shaved off floor and tools if cured.

15. Maintenance

Once cured, ***Edge-Pro 90*** is basically maintenance free if joint dimensions remain static. If joints should widen after installation (due to concrete drying shrinkage), separation voids may occur within the material or between the material and the joint sidewall. Voids exceeding 1/32" should be considered for restoration to ensure joint edge protection. Voids may be filled with additional ***Edge-Pro 90***, either through gravity feeding or removal and replacement of top ½" min. of installed filler. Refer to Technical Bulletin T11 (Joint Filler Separation; Causes & Corrections) for additional information.

Edge-Pro 90 can also experience protrusion above the floor surface if put into substantial compression. Joint dimension narrowing (resulting from concrete slab re-hydration/expansion) is a typical cause of this behavior. Please contact *Metzger/McGuire* if unusual circumstances are present, either prior to or after installation. Refer to Technical Bulletin T14 (Joint Filler Protrusion in Exposed Concrete Floors) for additional information.

16. 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

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

Edge-Pro 90 is acceptable for use in facilities regulated by USDA/FDA/CFIA. Contact us to discuss project details if contamination is a concern.

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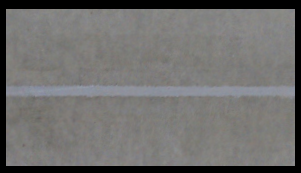

FLOOR JOINT FILLERS FOR CONCRETE FLOORS

For more than 45 years, Metzger/McGuire has been the world leader in concrete floor joint protection systems. From MM-80, the industry's first and widely acknowledged industry standard heavy-duty epoxy joint filler, to the cutting edge Spal-Pro and Edge-Pro lines of rapid-setting polyurea joint fillers, you can rely on Metzger/McGuire joint fillers to provide superior joint edge protection and to enhance the long term durability of your industrial or retail floor.

PRODUCT	SPAL-PRO RS 65 Semi-Rigid Polyurea Joint Sealant		EDGE-PRO 80 SEMI-RIGID POLYUREA JOINT FILLER		SPAL-PRO RS 88 Semi-Rigid Polyurea Joint Filler		SPAL-PRO RSF			MM-80	EDGE-PRO 90	
	NEW CONSTRUCTION		NEW CONSTRUCTION		NEW CONSTR./REPAIR		NEW CONSTR./REPAIR			NEW CONSTR./REPAIR	NEW CONSTR./REPAIR	
APPLICATION RANGE	Ambient	Cooler	Ambient	Cooler	Ambient	Cooler	Ambient	Cooler	Freezer	Ambient	Ambient	Cooler
PRODUCT DESCRIPTION	Rapid-Set Semi-Rigid Polyurea Joint Sealant		Moderate-Duty Semi-Rigid Polyurea Joint Filler		Rapid-Set Semi-Rigid Polyurea Joint Filler		Low-Temp Semi-Rigid Polyurea Joint Filler			Heavy-Duty Semi-Rigid Epoxy Joint Filler	Heavy-Duty Semi-Rigid Polyurea Joint Filler	
TYPICAL USES	Seal control and construction joints in retail and commercial concrete floors. Repair active cracks exceeding 1/8" in width.		Fill and protect joints in exposed concrete retail floors and in moderate-duty warehouse concrete floors.		Fill or repair control and construction joints in industrial and retail concrete floors. Repair active cracks exceeding 1/8" in width.		Fill and protect joints in freezer/cooler or ambient concrete floors subject to hard wheels and heavy loads.			Fill and protect joints in heavy duty industrial concrete floors subjected to frequent and demanding traffic. Repair joint deterioration.	Fill and protect joints in heavy duty industrial concrete floors subjected to frequent and demanding traffic. Repair joint deterioration.	
SHORE HARDNESS	A 64-69		A 80-81		A 86-90		A 88-94			A 90-95	A 90-92	
TENSILE STRENGTH	393 psi		505 psi		970 psi		930 psi			1200 psi	920 psi	
TENSILE ELONGATION	162%		152%		180%		170%			80-90%	238%	
ADHESION TO CONCRETE	350-400 psi		350-400 psi		350-400 psi		350-400 psi			300-350 psi	300-350 psi	
APPLICATION METHOD	Dual Pump or Cartridge		Dual Pump or Cartridge		Dual Pump or Cartridge		Dual Pump or Cartridge			Dual Pump or Hand Mix	Dual Pump or Cartridge	
POT LIFE	NA-No Hand Mix		NA-No Hand Mix		NA-No Hand Mix		NA-No Hand Mix			10-15 minutes	NA-No Hand Mix	
TACK FREE AT 70°F	10-15 minutes		3 minutes		5 minutes		30 minutes (at 32° F)			5 hours	10-15 minutes	
FULL TRAFFIC READY	30-60 minutes		1 hour		1 hour		3-5 hours (at 32° F)			8-12 hours	45 minutes	
COLORFAST	Yes		Yes		Yes		No			No	Yes	
MIX RATIO	1:1 by Volume		1:1 by Volume		1:1 by Volume		1:1 by Volume			1:1 by Volume	1:1 by Volume	
AVAILABLE PACKAGING	600 ml dual cartridge 10 gallon unit		600 ml dual cartridge 10 gallon unit		600 ml dual cartridge 10 gallon unit		1500 ml dual cartridge 10 gallon unit			1 gallon unit (MM-80) 10 gallon unit	600 ml dual cartridge 10 gallon unit	

Known by the Floors We Protect

Since 1970