

# MM-80



1:1 for Dual-Component Pumps

## 1. Product Name

**MM-80P**

## 2. Manufacturer

**METZGER/MCGUIRE**

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## 3. Product Description

### Composition

**MM-80P** is a two-component, 100% solids content epoxy joint filler. When cured, **MM-80P** is a gray, semi-rigid (hard but slightly resilient) filler with a Shore hardness of A90-95.

### Basic Use

**MM-80P** was developed to fill and protect joints in industrial concrete floors that are subject to hard wheeled material handling traffic and heavy loads. Its primary function is to support such traffic and protect joint edges from spalling. **MM-80P** is designed for use in areas where final temperatures are from 40°F (10°C) to +120°F (49°C). It is also ideal for joint and crack repair.

### Related Products

**MM-80** is available in two versions: **MM-80P** (P for pump), with a 1:1 mix ratio and standard **MM-80** in a 5:1 mix ratio. Both **MM-80** and **MM-80P** are available in silicone-free formulations for use in automotive/paint facilities.

## 4. Limitations

**MM-80P** is not designed for use in:

- True expansion/isolation joints
- Exterior joints (paving, etc.)
- Joints exposed to extreme chemical exposure
- Joints under VCT/seamless floor coverings (in most settings)

As with most semi-rigid joint fillers, **MM-80P** may yellow or discolor if exposed to:

- UV rays from certain types of lighting
- Temporary and/or propane heating systems
- External environmental factors and/or chemical components

Discoloration is more likely when material installation occurs in colder temperatures.

## 5. Advantages

**MM-80P** is a specially rebalanced formulation of our standard **MM-80** designed to achieve optimal placement and curing characteristics when dispensed through dual-component pump systems. **MM-80P's** 1:1 mix ratio ensures compatibility with most pump systems and permits accurate and simple ratio monitoring.

**MM-80P's** superior formulation yields sufficient rigidity to support loads crossing joints, protecting edges from spalling, and sufficient resiliency to prevent brittleness throughout the floor's service life.

**MM-80P** is formulated using the chemical backbone of our standard **MM-80**, the joint filler upon which ACI and PCA standards are based and the only joint filler that has a project-proven track record of providing the best floor joint protection in the industry for more than forty-five years.

## 6. Correct Joint Design/Installation

**MM-80P** 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, **MM-80P** 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).

The Industry Standard Heavy-Duty, Semi-Rigid  
Epoxy Joint Filler for Class 6-9 Industrial Concrete Floors

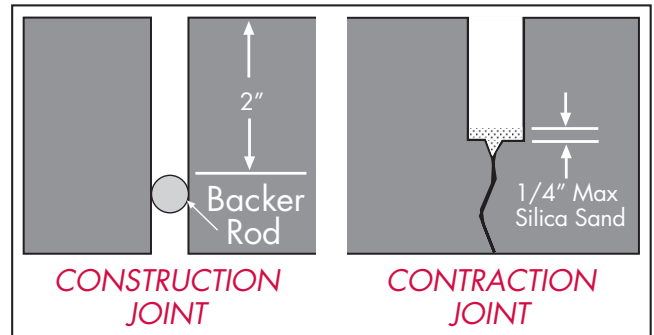
## TECHNICAL DATA

## M-1P



Low Emitting Sealant/Filler Complies with:

- BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- Green Guide for Healthcare V2.2



**Do not use compressible backer rod in saw cut contraction/control joints less than 2" deep. Compressible rod may be used as a base in construction joints if placed 2" below floor surface.**

## 7. Packaging and Colors

**MM-80P** is available in 10 gal. (US) kits; (5 gals. Part A, 5 gals. Part B). Standard color is medium gray. **MM-80P** can be custom colored. Contact Metzger/McGuire for details.

## 8. Applicable Specifications

There are no government or ASTM standards for semi-rigid joint fillers. **MM-80P** 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

## 9. USDA/FDA/CFIA/LEED v4.1 Acceptability

**MM-80P** is acceptable for use in floors subject to inspection/regulation by USDA/FDA and Environment Canada/CFIA. **MM-80P** contains no VOC's and fully complies with all LEED v4.1 green building standards.

## 10. TECHNICAL PROPERTIES

	TEST METHOD	RESULTS
HARDNESS, SHORE "A" @ 70°F	D-2240	A90-95
TENSILE STRENGTH	D-638	1200 PSI
TENSILE ELONGATION*(@ 70°F)	D-638	80-90%
ADHESION TO CONCRETE	D-4541	300-350 PSI
POT LIFE @ 70°F	-	10-15 MINS.
INITIAL CURE @ 70°F	-	5-8 HOURS
LIGHT TRAFFIC READY @ 70°F	-	5-8 HOURS
FULL TRAFFIC READY @ 70°F	-	8-12 HOURS
MIX RATIO (by volume)	-	1A:1B
SOLIDS CONTENT	-	100%
SHRINKAGE	-	Negligible

\* This property provided only for comparison with other fillers.  
Elongation does not directly correlate to lateral expansion capability.

**11. Technical Assistance**

Complete technical support and literature are available from authorized distributors, through our website ([www.metzgermcguire.com](http://www.metzgermcguire.com)) or by contacting our NH headquarters at (800) 223-MM80.

**12. Quality Installation Program**

When you specify "MM-80P, No Substitutes" your project is eligible for our Quality Assurance Program. This program helps ensure that MM-80P is properly installed. There is no charge for this service. Please call for details.

**13. Where to Specify and File**

MM-80P is exclusively for use in filling or maintaining contraction/control and construction joints in cast-in-place concrete floors. It is not an elastomeric sealant, and if referenced in the 079000 section it should only be specified under **079216 Rigid Joint Sealants**. Ideally the product should be specified in **030130 Maintenance of Cast-In-Place Concrete** or **030130.71 Rehabilitation of Cast-In-Place Concrete**.

**14. Availability**

MM-80P is available through quality construction supply distributors (listing available at [www.metzgermcguire.com](http://www.metzgermcguire.com)) or through our NH headquarters.

**15. Installation**

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

**When to Install** - The installation of MM-80P should be deferred as long as possible after slab placement and should never be installed prior to 30 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 areas stabilized and held for an additional 7-14 days or longer if possible. Refer to [Technical Bulletin T5 \(Filler Installation Timing\)](#) 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 method of joint cleaning is to use a dustless concrete saw with diamond blade (ensure blade is slightly wider than joint or clean both sides). No primer is needed.

If potential 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.

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 (Ethfoam, etc) in saw cut joints.** The applicator may use a compressible backer rod in through-slab construction (cold) joints ONLY. If used, the rod must be placed at least 2" below floor surface.

**Prior to Dispensing**

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

**Mixing** - Use a variable speed drill at low RPM and a paint mixing paddle (Jiffy or similar) to pre-mix MM-80P Parts A and B (different paddle for each) for approximately 3 minutes prior to pouring into pump tank. If dispensing manually, gradually blend pre-mixed Part B into pre-mixed Part A and mix until thoroughly blended (approximately 3 minutes). Do not dilute or alter material.

**Dispensing** - MM-80P has a viscosity similar to a medium weight motor oil. Best results are obtained by dispensing through a dual-component dispensing pump ratioed at 1:1 or through a bulk-type caulking gun.

**15. Installation - Dispensing (Continued)**

MM-80P should be installed using a two pass method. The first pass should fill the joint to within 1/2" of floor surface. Within 60-90 minutes overfill joint with a second pass, leaving material "crowned" above floor. Check joints periodically to ensure low spots do not occur due to seepage. Do not fill flush and leave as low filler profile is likely to occur. Allow material to cure into solid (approx. 5-8 hours @ 70°F) and shave or grind material flush with floor surface. If shaving, lightly heating material with propane torch or other heating source prior to shaving to ease the shaving process and ensure a smoother filler profile. Use appropriate respirator mask if heating material.

Any overfill not removed during razoring may leave a slight stain on concrete. The degree of staining will depend on the surface density (porosity). The stain will gradually fade as a result of subsequent traffic and floor cleaning procedures. Stains can be reduced or avoided by using Metzger/McGuire's **SPF** (stain preventing film). See **SPF** data for more information.

**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.

**16. Maintenance**

Once cured, MM-80P is basically maintenance free. If joints should open after installation due to concrete shrinkage, fill any voids exceeding credit card width (1/32") with additional MM-80P, MM-80 or Metzger/McGuire's **Spal-Pro RS 88**. Refer to [Technical Bulletin T11 \(Joint Filler Separation; Causes & Corrections\)](#) for additional information.

**17. Approximate Coverage Rates**

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
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
1/2" x 1"	40	13 x 25	12

**18. Shelf Life and Storage**

MM-80P has a guaranteed shelf life of 12 months if containers remain unopened. Store in dry, cool areas away from excessive heat, freeze/thaw and sunlight. See complete installation instructions for information.

**19. 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 SDS and installation instructions for additional information prior to using material.

**20. Food Related Facilities**

USDA limits the use of chemicals in areas where existing food/food packaging is present. See "Food Warning" in installation instructions. When cured MM-80P, is acceptable in USDA/FDA/CFIA regulated facilities.

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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.