

Pecora® DynaThane 800HM

Two Component, Polyurethane Semi-Rigid Control Joint Resin



SPECIFICATION DATA SHEET

BASIC USES

- Pecora DynaThane 800HM is designed to fill and support saw cut crack control joints in concrete exposed to vehicular traffic in industrial and warehouse floors.

MANUFACTURER

Pecora Corporation

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PRODUCT DESCRIPTION

Pecora DynaThane 800HM (Hand Mix) is a two part, manually mixed, semi-rigid, pourable, low odor, low VOC, bio-based polyurethane which is designed specifically to protect concrete floor joint edges against breaking (spalling) caused by the rigid wheels of industrial vehicular traffic. Pecora DynaThane 800HM requires no primer under normal conditions, is 100% solids (will not shrink), and cures to a semi-rigid hardness.

ADVANTAGES

- Superior spall protection
- No odor
- Low VOC
- Field Tintable

APPLICABLE STANDARDS

Test or performance criteria standards are currently not available through ASTM. DynaThane 800HM meets or exceeds the criteria outlined 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.

FDA Title 21 CFR 177.2600 and CFR 177.1550. Meets USDA requirements for use in meat and poultry processing facilities where incidental contact may occur. CFIA compliance for use in food processing or packaging facilities where incidental contact may occur.

Certified to USDA BioPreferred® Program including 58% biobased content verification per ASTM D6686.

LIMITATIONS:

- Dynamic joints where thermal movement is anticipated.
- Exterior joints exposed to UV.
- Where color stability is required.
- Exposure to hydrocarbon fueled temporary heating utilized during the joint filler installation process.

APPLICATION

Surface Preparation: Concrete floors should have a minimum cure of 28 days prior to joint filling. Since concrete shrinks for many months, and shrinkage results in the widening of joints, filling should always be delayed for as long as the schedule allows. If filling in refrigerated areas (i.e. coolers), the room should be stabilized at its final operating temperature for 7-14 days or longer if possible. Contact Pecora Technical Service when application temperatures fall under 40° F. Joints should be clean and dry.

Pecora DynaThane 800HM must bond to clean, exposed concrete for the full intended filler depth. Joints must be free of saw laitance, dirt, debris, coatings, sealers, etc. Apply to freshly cut joints which have been vacuumed during the saw cutting process to remove all loose debris and dust. Upon completion of saw cutting processes, vacuum any remaining dust/debris from joint. Simply raking debris out of joint is NOT an acceptable means of joint cleaning.

PACKAGING

- 1.25 gallons (1 gallon base, 0.25 gallons activator)

COLOR

- Gray, Mortar Gray, Field tintable neutral base with 21 std colors available, custom colors available upon request.

NOTE: Colors may fade or yellow with time and exposure to UV hydrocarbon exhaust from temporary indoor heating devices.

Mixing: Add entire contents of Part B to Part A. If field tinting is being utilized add the Pecora Universal Color pack at this time. Mix for two (2) minutes with a butterfly mixing paddle. Scrape down sides and bottom of mixing bucket. Mix for an additional one (1) minute.

Dispensing: Pecora DynaThane 800HM can be dispensed via bulk caulking gun or manually poured. Other equipment necessary includes, but not limited to, proper PPE (refer to SDS), drill and mixing paddle (Jiffy or equal, no flat mortar paddles), plastic mixing pails, dry silica sand, solvent (Xylene, mineral spirits, MEK or denatured alcohol), clean cloths, razor scraper, and torch.

Joint Filling: Pecora DynaThane 800HM is installed to full joint depth in saw cut joints or 2" minimum in joints greater than 2" in depth.

Crack control joints typically are cut utilizing a diamond blade saw

TYPICAL PHYSICAL PROPERTIES & COVERAGE RATES

Test Property	Value	Test Procedure
Mixed Viscosity, cps	4000	Brookfield
Color, mixed	Gray	Pecora Corporation
Mix Ratio, Volume (Base:Act)	4:1	Pecora Corporation
Shore A hardness	95 - 100A	ASTM D2240
Shore D hardness	60 - 65D	ASTM D2240
Adhesion to concrete, psi	300-350	ASTM D4541
Shave Time	3 - 5 hours	Pecora Corporation
% solids	100	Pecora Corporation
Shrinkage	None	Pecora Corporation
Pot Life, Minutes @ 77F	40-min	Pecora Corporation
Initial Cure/Gel @ 77F	50-min	Pecora Corporation
Full Cure @ 77F, hrs	24	Pecora Corporation
Tensile Elongation	45-55%	ASTM D638
Tensile Strength	1300 psi	ASTM D638
VOC (mixed), g/L	8	Pecora Corporation

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capable of creating crack control joints at a depth of $\frac{1}{3}$ the full thickness of the subject slab.

For through-slab construction (formed) joints or any joints exceeding 2" in depth, the installer may use silica sand or backer rod provided it is held down at least 2" from the floor surface. Contact Pecora Technical Service for information on special conditions.

Coverage Rates

Joint Size (Width x Depth), inches	Lineal Feet per Gallon, Lt/gal
$\frac{1}{8} \times 2$	77.0
$\frac{1}{4} \times 2$	38.5
$\frac{1}{2} \times 2$	19.3
$\frac{3}{4} \times 2$	12.8

Note: Refer to the Pecora Online Calculator for material estimates and coverages for joint sizes that deviate from those published here.

Joint Filling General Installation Technique:

1. Install first pass of Pecora DynaThane 800HM to within $\frac{1}{2}$ " of floor surface and allow to release any entrapped air for 5 to 10 minutes. This will allow entrapped air bubbles to rise and areas of seepage to be discovered.
2. Make second pass and overfill joint (crown).
3. Allow Pecora DynaThane 800HM to cure into a full solid, usually 3 to 5 hours depending on temperature. Flush bulk guns with solvent regularly to prevent the material from curing in barrel or tip.
4. Single pass applications may be possible dependent on surface and ambient temperatures. A test joint may be conducted to confirm a single pass application.

Surface profile finishing of installed Pecora DynaThane 800HM Joint

Surface (Razoring): To provide effective concrete joint edge protection, the Pecora DynaThane 800HM final profile must be flush with the floor surface. This is achieved by razoring-off the overfill crown AFTER the Pecora DynaThane 800HM has fully cured into a solid. Surface razoring time is dependent upon ambient temperatures

during installation. Use a tile razor floor scraper or similar. Elevated ambient temperatures (above 90°F) will generally require less time before surface razoring while low temperatures (below 40°F) may require an overnight curing period before surface razoring. If the material has cured too long and the razor scraping method is difficult, a torch may be utilized to soften the raised crown of the joint filling material just before applying pressure with the scraper. This is a two person process that includes the first person applying a torch to the raised crowned surface while being followed closely behind by the second person performing the scraping process.

SHELF LIFE:

One (1) year from date of manufacture when stored at 80°F or below can be expected.

WARNINGS AND HAZARDS:

Before use refer to MSDS for important warnings and safety information. Avoid contact with skin, eyes or clothing. The use of gloves, aprons or other protective devices is recommended. In case of skin contact, wash thoroughly with soap and water. If contact with eyes is made, flush thoroughly with clear water and get medical attention.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH OF
CHILDREN.**

LIMITED WARRANTY

Pecora Corporation warrants this product to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. This warranty is in lieu of any and all other warranties, expressed or implied, and in no case will Pecora be liable for incidental or consequential damages.

TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions. For further information and assistance, please call our Technical Service department at 215-723-6051 or 800-523-6688.

