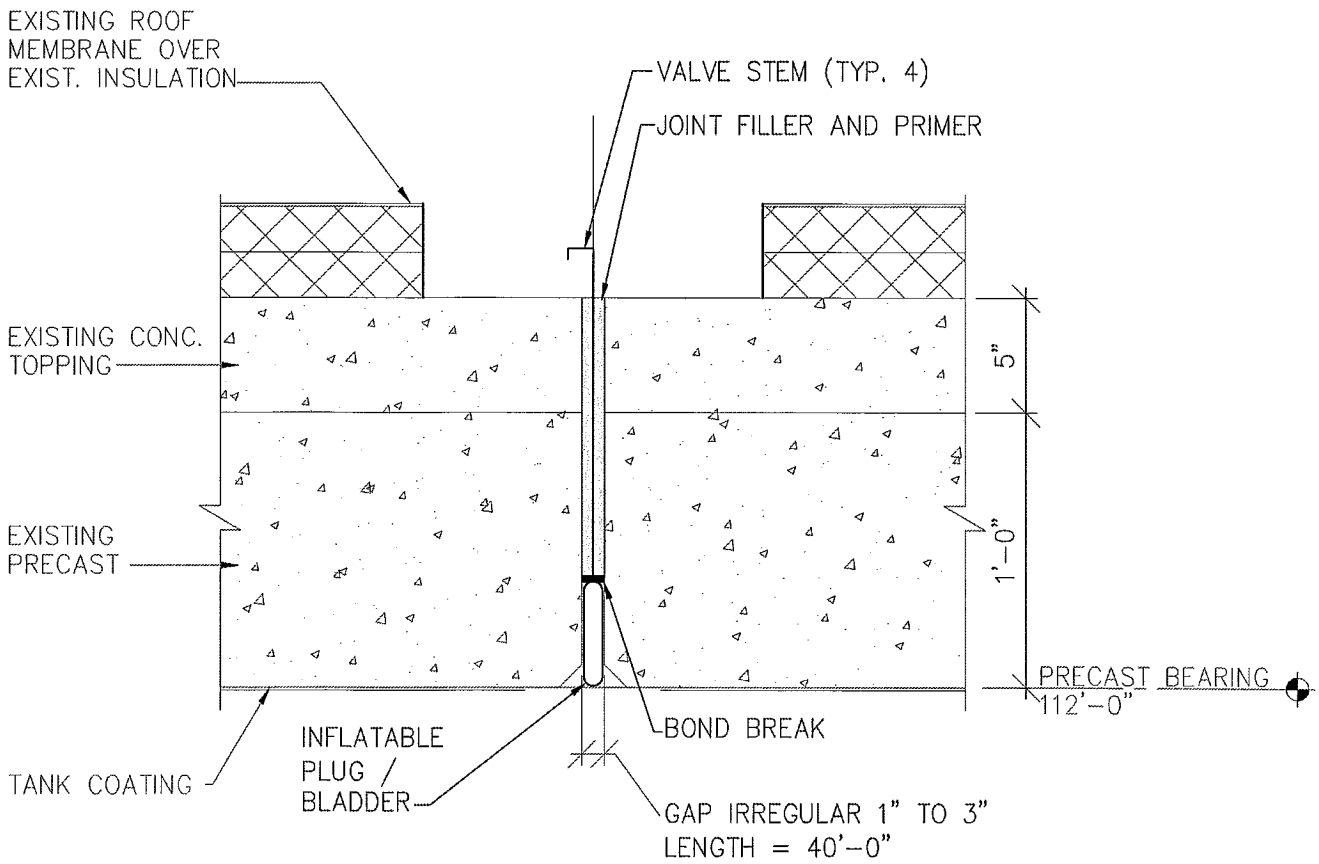

OPTION 5A:

- REMOVE ROOFING AND INSULATION AT EXPANSION JOINT.
- INSERT CUSTOM INFLATABLE PLUG OR BLADDER. PLUG OR BLADDER MUST BE SUITABLE FOR USE IN AN ANAEROBIC DIGESTER ENVIRONMENT WITH AN OPERATING TEMPERATURE OF 90 TO 110 DEG. F. COMMON CONSTITUENTS IN BIOGAS:
  - METHANE – 50% TO 75%
  - CARBON DIOXIDE – 25% TO 50%
  - HYDROGEN SULFIDE – UP TO 10,000 PPMV
- BIOGAS PRESSURE UNDER PRECAST COVER CAN REACH 24 INCHES W.C.
- PROVIDE BULKHEAD EVERY 10–FT TO SPLIT PLUG OR BLADDER INTO 4 SECTIONS.
- PROVIDE CLOSED–CELL EXTRUDED POLYPROPYLENE BOND BREAKER BETWEEN BLADDER AND JOINT FILLER.
- POLYUREA JOINT FILLER:
  - CLEAN CONCRETE SURFACES OF CONTAMINANTS AND MOISTURE.
  - PRIME CONCRETE SURFACES WITH OAK RIDGE OR611 PRIMER.
  - FILL JOINT WITH OAK RIDGE OR80JF TWO–COMPONENT POLYUREA JOINT FILLER.
  - COMPLY WITH MANUFACTURER'S RECOMMENDATIONS (SEE ATTACHED PRODUCT DATA SHEET)

EXPANSION JOINT DETAIL – ROOF

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Oak Ridge™
Foam & Coating Systems, Inc.

OR80JF

Joint Fill/Batch mix Roof Elastomer

Product Description
-100% solids, self leveling, two component polyurea joint filler
-Rapid curing
-Flexible, allowing 400% movement of installed joints

Primary Applications
-Designed for medium duty traffic and freezer applications
-Used to fill interior control joints or new construction say joints on horizontal concrete surfaces
-Designed for industrial floor applications
-Can be use in exterior or applications when minimal joint movement from thermal cycling will occur.
-Designed for industrial floor applications
-Control joint fill

Storage Stability
6 months in an unopened original container at 60-90° F. Normally, containers should be used within one week after opening or seal with nitrogen blanket.

Color
Standard color is medium gray, contact EFP LLC for customer colors.

Toxicity
Maintains polyisocyanate that may be irritating to skin and is toxic if inhaled as particle matter. Matter contacting the skin should be neutralized by washing with generous amounts of water.

Pot Life
Pot life of 100g mass is one minute at 72°F. Higher temps and larger quantities will shorten pot life. Lower temps and smaller quantities will lengthen pot life.

Where to use:
Industrial Facilities, Warehouse Floors, Manufacturing Facilities Cold Storage, Pulp and paper Mills, Bottling and Canning Facilities Airports, Bridges, Parking Decks, Wire Guiding Systems

Benefits of ORJF/BMRE
100% solids, meets VOC Regulations, 300 X 300 ml cartridges for less waste, can be bulk mixed through Pump, Custom colors, Flexible 425 – 460% 1 Elongation, can be used to -40°F, chemical resistant, excellent load transfer, open to traffic in 90 minutes, and meets USDA regulations.

Coverage:

Inches	1/8	¼	½	¾	1
1/8	1230	615	308	205	154
¼	615	308	154	102	77
½	308	154	77	51	38
¾	205	103	51	34	25
1	154	77	38	24	19
1½	205	51	25	17	42
2	77	38	1	12	9
3	52	25	12	8	6

Application
Remove all debris, oil and any other contamination from constructions and saw joints. For best results, re-cut joints with a dry diamond blade. If the area to be caulked is wet or damp, joints must first be primed with OR611and be allowed to set for 1 hour. Install closed cell backer rod at a depth of 1" to 1 ¼", avoiding 3 sided adhesion. Applied material should be level with concrete. Allow ORJF/BMRE to set for 30 minutes and then use a sharp 8" scraper to shave excess material from top of slab.

Typical Physical Properties

Tensile Strength	ASTM D-412	2700
Elongation	ASTM D-412	450%
Hardness (shore A)	ASTM D-2240	80
Tear strength	ASTM D-624	330 psi
Weight B side	8.2/gallon	
Weight A side	8.9/gallon	
Flash point	above 81° F	
Viscosity B side	850 CPS @ 70° F	
Viscosity A side	1100 CPS @ 70° F	
Coverage	SEE CHART	
Water vapor permeability	0.04 perm inches (1.5mm)	

Cure time
Gel time 2-5 minutes
Tack free in 15 minutes
Allow 90 minutes at 72° F before opening to traffic.

Clean up
Wipe any excess from concrete and tools before it cures. Once ORJF/BMRE has cured, use a sharp floor scraper to remove.

Limitations
Not intended for exterior or interior joints that are subject to excessive movement. ORJF/BMRE is moisture sensitive material. Repair areas that are wet or damp must be primed.

Equipment
Can be applied by any dual cartridge static mixer gun or crack fill machine.

Warranty
The technical data and any other printed information furnished by Oak Ridge are true and accurate to the best of our knowledge. ORJF/BMRE conforms to our in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and offered solely for evaluation. The use of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Oak Ridge makes no warranty, expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.
1/2016

Manufacturer of High Performance Foam/Coatings & Application Equipment
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