

# RMI TECHNICAL BULLETIN

## RMI-ROOF REPAIR KITS ROOF REPAIRS DONE RIGHT

BULLETIN TITLE

1200

TECHNICAL BULLETIN #

11/15/18

DATE OF ISSUE

**OVERVIEW** This bulletin addresses RMI Roof Repair Kits for year-round applications. Each kit contains premeasured containers RMI products to complete repairs to any roof system. Kits are available in 10, 50, 100 sq. ft. coverage.



ALL RMI - TECHNICAL BULLETINS ARE SUPPLEMENTAL TO THE MOST CURRENT RMI-SPECIFICATION GUIDE MANUAL. CONTACT RMI TECHNICAL SERVICES FOR SPECIFIC PROJECT REQUIREMENTS.

- These new year-round roof repair kits are comprised of the same 30-year-old RMI system components found on our large commercial projects but without the 55-gallon drum and custom spray equipment.
- Perfect for extreme weather repairs be it below freezing (32F) or extreme heat (180F).
- Sets up and waterproof in minutes/hours not days. Does not require reinforcements.
- RMI Flex has 100% solids and 0% VOC. No shrinkage, 100% memory. What you apply is what you get.
- 10-50-100 sq. ft. kits to mix and match your exact repair needs. Each kit contains just the right amount of RMI Primer, Premeasured RMI Flex (Parts A&B) and RMI Thane.

### REPAIR 10 (Sq. Ft.)

RMI-Prime: ½ Pint (0.237L) (Fast dry additive not included)

RMI-Flex Part A (ISO): ½ Pint (0.237L)

RMI-Flex Part B (Resin) 1 Quart (0.946353L)

RMI-Thane (Silver Surface Coating) 1 Pint (0.473L)

Stir Sticks – Mil Thickness Gauges



### REPAIR 50 (Sq. Ft.)

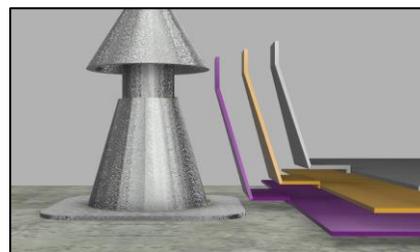
RMI-Prime: 1 Pint (0.473L) (Fast dry additive not included)

RMI-Flex Part A (ISO) 1 Pint (0.473L)

RMI-Flex Part B (Resin) 1 Gallon (3.8L)

RMI-Thane (Silver Surface Coating) 2 Quart (.946L each)

Stir Sticks – Mil Thickness Gauges



### REPAIR 100 (Sq. Ft.)

RMI-Prime: 1 Quart (0.946353L)

(Fast dry additive not included)

RMI-Flex Part A (ISO) 2 Pints (0.473L) each

RMI-Flex Part B (Resin) 2 Gallons (3.8L) each

RMI-Thane (Silver Surface Coating) 1 Gallon (3.8L)

Stir Sticks – Mil Thickness Gauges

- Seeing is believing:
  - RMI vs Coating Repair Race Test <https://www.youtube.com/watch?v=qHzFfYz93w4>
  - RMI Flex Durability <https://www.youtube.com/watch?v=oywEh44-cNw>
  - RMI Flex Vapor Barrier Application <https://www.youtube.com/watch?v=3totM4bmrVU>
  - RMI Flex Freezing Elongation Test <https://www.youtube.com/watch?v=s7788B6nXzk>
  - Our YouTube channel is: <https://www.youtube.com/channel/UCEarOnq7p72t0Ro6Mwndjsg>
- Suitable substrates include: Concrete, LIC, Metal, Metal Roof Panels & existing roof systems (BUR, Modified Bitumen, Cold Process, EPDM, Spray Polyurethane Foam, PVC, and TPO).
- Available through select roofing supply distribution (US & Canada) and direct to RMI certified contractors.
- Need more information? See our website [www.roofrmi.com](http://www.roofrmi.com) or <http://roofrmi.com/rmi-repair-kits.html>

# ROOF REPAIRS DONE RIGHT

## TECHNICALLY SPEAKING

- A. The RMI roof repair kits consists of three distinct materials, a primer RMI-Prime to prepare the existing surface for maximum adhesion, a fluid applied membrane -RMI Flex and a liquid applied roof (wear surface) coating - RMI Thane.
1. RMI Flex is a Chemical Cure 100% modified polyglycol fluid applied roof membrane. So what does that mean? Without a chemistry lesson, it means that as a chemical reaction takes place when the materials are mixed to create 100% solid content materials, it does not lose a percentage of solvents or water in during the curing process as other products might. As such, ambient air temperature at the time of installation is not as critical as a solvent or water based material. Flex typically cures within 20 – 180 minutes in ambient temperatures above 32F-0C. Time may vary by other factors as clouds/sunlight, dew point etc. can affect RMI Flex in reaching its final cured form. While Flex can be installed below 32F-0C, as noted, the curing time may be extended beyond shown. This is as opposed to a solvent or water-based material that may take up to 24-72 hours to cure in colder temperatures, or water based liquid applied roof coatings or sealants may not be able to be used at all. The Tensile Strength, Ultimate Load and Elongation/Tear of Flex actually increase at lower temperatures. Additionally, Flex retains its performance properties up until the point of breaking which is very significant in real world applications.
    - a. When cured, RMI-Flex performs pretty much the same as any other single ply membrane (TPO / PVC) which are also not impacted by lower temperatures. RMI-Flex has been installed in Canada under conditions considerably colder than other parts of North America for years. From a practical point, as it is a fast cure 100% solid, it is not subject to the same distress that a solvent or water based vapor barrier would incur over a longer cure process during colder temperatures. Imagine that you have a daytime temperature of 60F-15C with RMI-Flex, as it quickly cures, a drop in the temperature say below freezing (32F-0C) temperatures would have no more of an impact than on a PVC or TPO membrane. On the other hand, a water-based product at these temperatures may freeze before curing. Regardless of freezing, any water based product would be more susceptible during a cold temperature swing while it is still curing into the final product.
  2. RMI Thane is a solvent based liquid applied roof (wear surface) coating. So how do cold temperature applications impact liquid applied roof coatings? A solvent based product will continue to flash off and cure in colder weather. Solvent based asphaltic systems are commonly installed during colder weather months. Does that mean below freezing? From a practical point, no one likes to install any liquid applied roof coating much below freezing but a solvent based product is very amenable to applications below 32F-0C. On the other hand, a water based product, as the temperature drops, so does its rate of curing and at some point it may freeze prior to curing or impact the curing process and final product. Check the label for specific water based coatings but most recommend application temperatures over (60F-15.5C) degrees and limited for general application to temperatures above (40-4.4C).
- B. In conclusion, all roofing including fluid applied materials have their limitation. Hot & Cold weather extremes are not one of those for a 100% solids material as RMI-Flex. If you require further information, contact RMI Technical Services.

