

Firestone EPDM Roofing Systems

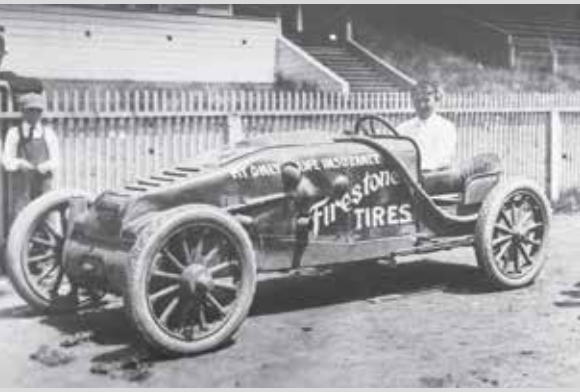
The solution for leaking metal roofs



Metal Roof Patching Solution

Firestone

Firestone Building Products



Firestone: over a century of experience

Firestone has been a world leader in rubber polymer technology for over a century. It all started in 1903 when Harvey S. Firestone manufactured the first set of Firestone rubber tires. Building on this legacy, Firestone Building Products has become a global leading manufacturer of high-quality EPDM rubber membranes and accessories for flat roofing applications. Firestone is committed to offering a complete line of high performing roofing solutions as individual as your building and has therefore put together the following patching methods for leaking metal roofs.



Superior roofing solution

The main component of a Firestone Metal Roof Patching solution is the Firestone RubberGard™ EPDM membrane. This synthetic rubber membrane is made of ethylene-propylene-diene terpolymer (EPDM) mixed with carbon black, oils, curing agents and processing aids. This elastomeric membrane has a cross-linked polymer structure providing superior performance, even in the most demanding environments. Its flexibility, elongation capacity and elasticity allow it to accommodate to any building movement.



Features and Benefits

High flexibility and elasticity

Firestone EPDM membranes are highly elastic and can elongate over 300% in all directions without cracking. They remain flexible at temperatures down to -45°C, offering year-round installation and performance. This flexibility enables the membrane to adapt to the irregular shape of a metal roof and offers excellent lay-flat characteristics.

Superior weatherability and durability

Firestone EPDM membranes are fully-cured membranes composed of essentially EPDM polymer and carbon black, offering unmatched resistance to ozone and UV radiation. Also, the characteristics of the membrane remain stable and unchanged over time, thus providing a sustainable roofing solution. If required, the membrane can be easily repaired even after decades of service.

Economical and easy to install

The Firestone EPDM membrane does not require the use of flames or any special tools for installation. It is lightweight and can be installed on metal roofs with limited load bearing capacity.

Firestone EPDM Roofing Systems are installed only by trained, professional Firestone Licensed Contractors who share our commitment to delivering quality roof installations.

QuickSeam™ Tape System

Firestone has developed the highly effective Firestone Quickseam Splice Tape System for joining EPDM membranes and finishing details. This advanced seaming method is based on the Firestone QuickSeam Splice Tape, a self-adhesive EPDM/butyl tape. Since its first roofing application in 1987, millions of linear meters of Firestone QuickSeam Tape have been successfully installed on rooftops worldwide. The complete line of QuickSeam Tape products generates twice the seam strength of conventional adhesives.

Besides this, the field seaming technology offers numerous benefits:

- Reduced labor times for seaming
- Easy to install
- Superior long-term performance thanks to stronger seams
- Low sensitivity to humidity
- Reduced Volatile Organic Compounds (VOC) emissions
- Visual quality control



Metal Roof Patching Solution

The Firestone EPDM membrane, in conjunction with the QuickSeam technology, provides a watertight solution for leaking metal roofs. The QuickSeam Tape System provides excellent adhesion to various substrates, including metal. The EPDM membrane and tape laminates are unaffected by panel and building movements thanks to their elastic properties and high elongation capacity. Details such as gutters, wall upstands, roof edges, vents, etc. can be made watertight using the EPDM membrane and QuickSeam products.

BEFORE



Roof Ridge



AFTER

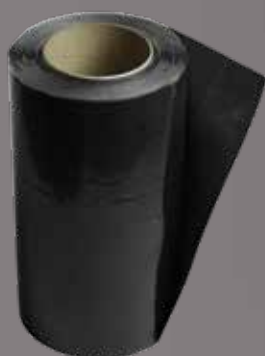


Penetrations



Gutters





Fully engineered system

Firestone has developed a complete range of accessories for its RubberGard™ EPDM membranes to meet the requirements of various installation details found on metal roofs and provide a complete watertight solution for leaking metal roofs. All components necessary for this system are available from a single source: Firestone Building Products.

Firestone QuickPrime™ Plus is a high solids primer designed to clean and prepare the EPDM membrane and/or the metal substrate in areas where QuickSeam products will be applied.

Firestone QuickSeam™ Splice Tape is a 76 mm (3") wide rubber based, self-adhesive tape designed for field splicing of EPDM membrane panels as well as Firestone EPDM membranes to a metal substrate.

Firestone QuickSeam™ FormFlash™ is an uncured EPDM strip factory-laminated to QuickSeam Tape. It is designed to flash inside and outside corners, pipes, penetrations and other applications as specified in the Firestone specifications and details.

Firestone QuickSeam™ SA Flashing is a 457 mm (18") wide strip of fully cured EPDM membrane laminated over its entire width to a QuickSeam Splice Tape, used to wrap curbs, flash parapets, line gutters and carry out general roof repairs.

Firestone Bonding Adhesive is a rubber-based contact adhesive for bonding EPDM membranes to metal, wood, concrete and other acceptable substrates.

Firestone Lap Sealant HS is an EPDM sealant used for protecting exposed cut edges of QuickSeam products, as well as edges exposed to run-off water. It can also be used as a general purpose sealant.

Firestone Water-Block Seal is a butyl-based sealant used for watertight seals when applied under compression, e.g. behind termination bar profiles.



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