NanoMount™ Roof Compatibility

Material compatibility is a measure of how stable a substrate is when in contact with another substrate. If two substrates are in contact and undergo a chemical reaction, they are considered incompatible. The NanoMount™ is a die cast metal mount made using 6061 high grade aluminum and then powder coated for added protection against oxidation. Adhered to its base is an ultra-soft weather resistant closed cell synthetic foam rubber gasket to achieve superior leak protection on roof surfaces. The large circular die cut chloroprene rubber (CR) gasket has a good balance of properties including a good resistance to chemicals, water, sunlight, and oxidation.

Chloroprene rubber is also known by the trade name Neoprene. Although neoprene is the leading material choice for many applications it is fundamental to review its material compatibility. Since SunModo cannot know the exact chemical composition of a given roof substrate therefore we recommend the use of a roof compatible sealant when installing the NanoMount. The roof compatible sealant ensures a layer of homogeneity between the NanoMount and the roof substrate. The information in this chart has been supplied to SunModo by other reputable sources and is to be used only as a guide.

Roof Type	Material Overview	Compatibility
Asphalt shingles	Asphalt shingles are the most common roofing materials in America because they're effective in all environmental conditions. Asphalt is the main water-resistant ingredient in shingles. The asphalt used is an end-product of oil refining and, although somewhat similar in origin to road asphalt, it is processed to a higher degree of toughness needed for asphalt shingle performance.	Compatible
Copper metal roofs	Acrylic, neoprene, and nitrile based sealants have been observed to actively corrode copper. The use of the NanoMount is therefore not recommended.	Not recommended
EPDM membrane (ethylene propylene diene monomer)	EPDM rubber is a type of synthetic rubber that is used in many applications. EPDM is most commonly used in the automotive and construction industries for various seals due to its excellent resistance to environmental factors such as Ozone, UV and general weathering.	Compatible
Green roofs	Green roofs are covered with plants and can improve air quality, reduce water runoff and insulate homes to reduce urban heat islands.	Not recommended
Metal roofing	Metal roofing comes in vertical panels or shingles resembling slate, tile and shake. The NanoMount is compatible with aluminum shingles and corrugated steel roofs.	Compatible
PVC membrane	PVC roofing membranes are made by polymerizing vinyl chloride monomers, then adding plasticizers to increase flexibility.	Compatible
Tar and gravel	Build-up roofing consists of layers of asphalt, tar or adhesive topped with an aggregate and is only for flat roofs.	Compatible
TPE/TPO/TPE-O membranes (thermoplastic polyolefin)	TPEs contain more than one type of polymer--an elastomer that gives the material its elastic or soft properties and another polymer that gives it strength. Thermoplastic olefin TPO (or TPE-O) compounds are a special type of TPE that is made from a polyolefin (polypropylene) blended with an elastomer (EPDM). Traditional thermoset includes: Buna-N (TS), EPR, Neoprene and Viton.	Compatible
Wood shake	Wood shakes are typically sawn on one side and hand split on the other side, making them thicker than wood shingles.	Not recommended