



Remora Electrical

Things to know

PlastiForm Electrical Weatherproof Compound



Technical Breakdown

PlastiForm R391 is a non-hardening plastic waterproofing sealant designed for high performance environmental protection. It is essentially a versatile, weatherproof compound used to seal any form of enclosure or cable entry point where moisture ingress must be prevented.

This compound is a significant upgrade from standard fillers because it never hardens, allowing it to resist the dislodging effects of vibration while preventing moisture creepage. We primarily use it for protecting electrical contacts from corrosion and sealing irregular openings in equipment covers or screw threads.

The material properties are engineered for reliability. It is highly resistant to acids, alkalis, and water permeation. Unlike many chemical sealants, it has no deleterious effects on metals, plastics or various cable types like PVC and synthetic rubber. Because it remains soft, it can be readily moulded around intricate contours or pressed into fine cavities to ensure a complete moisture seal.

How to Choose - Selecting PlastiForm R391 for your project requires matching the environmental and electrical demands of the installation. First, you must ensure the operating temperature of the application falls within the range of -20°C to 80°C to maintain the compound's integrity.

Second, confirm that the maximum working voltage does not exceed 1kV, despite the material offering a high dielectric strength of 13.5 kV/mm. Finally, identify the surface types; this compound is ideal for moulded plastics and irregular openings where a flexible, non-shrinking seal is required to prevent electrical leakage or short circuits due to dampness.

Best Practices - To achieve a reliable, long-term seal, the compound must be stored in its original packing until use, protected from dust, heat, moisture and solvent fumes. When applying, mould the soft material firmly into fine cavities or around terminals to ensure there are no gaps for moisture to enter. It is important to note that the product has a shelf life of 3 years under normal storage conditions. Because it does not crack, peel, or harden, the sealant can be readily removed and replaced whenever maintenance is required, making it an excellent choice for temporary or frequently accessed enclosures.

Q Is PlastiForm R391 safe to handle with bare hands??

A Yes, it is harmless to the hands and does not liberate toxic fumes, even in the event that the material is overheated.

Q Will the sealant shrink or crack over time if exposed to the sun?

A No. PlastiForm R391 is specifically formulated so it does not harden, shrink, crack, or peel even when exposed to air or direct sunlight.

Q Can I use this for high-voltage applications?

A This compound is rated for a maximum working voltage of 1kV. For any applications exceeding this limit, you should consult the technical team for a high-voltage specific solution.