

R391 & R392

Weatherproof Compound



Electrical connections may be protected from moisture and corrosive vapours by use of a non-hardening waterproof sealant (R391/392) supplied by Prysmian. The material has the consistency of putty, has good insulating properties and can be moulded around terminals and connectors providing a moisture and mechanical seal for any form of enclosure.

Prysmian Weatherproof Plastic Compound prevents electrical leakage or short circuits due to moisture ingress. It prevents corrosion of electrical contacts in industrial atmospheres and forms a seal around irregular openings, screw threads and covers of electrical equipment. The compound can also be used for many non-electrical applications wherever a reliable non-hardening moisture seal is required.

Handling of R391/392 Compound

Prysmian Weatherproof Plastic Compound is soft enough to be readily moulded but is not sticky although has good adhesion to moulded plastic and other surfaces. This enables the material to resist the dislodging effects of vibration, preventing moisture creepage along any interface. It does not harden after exposure to air or sunlight and does not shrink, crack or peel. Exposure to sunlight may cause slight hardening of the skin (which does not affect the mass) which can be readily removed by manually working. As the compound is non-hardening it can be readily removed and replaced for maintenance purposes. The material does not evolve toxic fumes, even if overheated, and does not irritate the skin.

Prysmian Weatherproof Compound consists of an inert filler dispersed in a plastic base. It is not resistant to oils, aromatic or aliphatic hydrocarbons but is highly resistant to water permeation and acids and alkalis in vapour form.

There is no deleterious effect on plastics, rubber (natural or synthetic) or other cable materials such as PVC. It can be used to seal cable ends and cable entries to enclosures. The compound is dark brown in appearance and has an unlimited shelf life if stored in the original packaging, re-sealed after use.

Prysmian Weatherproof Plastic Compound is available as a 0.5kg (2 x 250g) pack (R391 Compound) or as a 3kg pack (R392 Compound).

Material Composition

One or more liquid polymers selected from:

- Depolymerised natural rubber
- Polybutene
- Polyisobutylene
- Butadiene styrene copolymer
- Polybutadiene
- Polyvinylalkyl Ether

One or more mineral reinforcing agents selected from:

- Talc
- Calcium Carbonate
- Clay

Technical Specification:

Relative Density	1.7 g/cm ³
Flash Point	210°C
Operating temperature range	-20°C to +80°C
Volume Resistivity @20°C	2.8 x 10 ¹² ohm.m
Colour	Dark Brown
Dielectric Breakdown Strength	18 kV/mm

Traces of compound adhering to the hands can be removed with most industrial hand cleaners such as Swarfega.

Good adhesion to moulded plastic and metal surfaces provided they are clean, dry and degreased.

Solvent suitable for degreasing is White Spirit