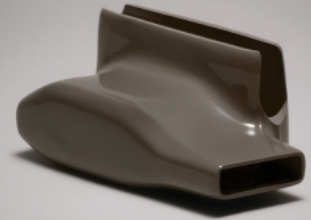


**TR** **TERMORESINE**  
electrical insulation leading company

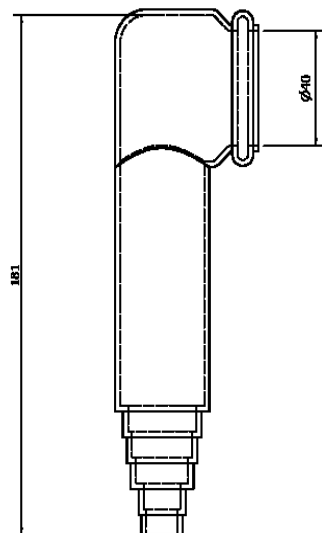




## OUR MANUFACTURING PROCESSES

Since 1982, Termoresine has been leader in the electrical insulation market thanks to our use of high performance coatings; this makes us the ideal partner for everyone looking for the best possible solutions in this field. We are a solid point of reference for our costumers, thanks to our high quality products and customised solutions.

Our background, expertise and capability to be always up to date, through continuous improvements, ensure that we are able to fulfill all customers requirements and provide them with the best turnkey solutions.



## HOW DO WE WORK?

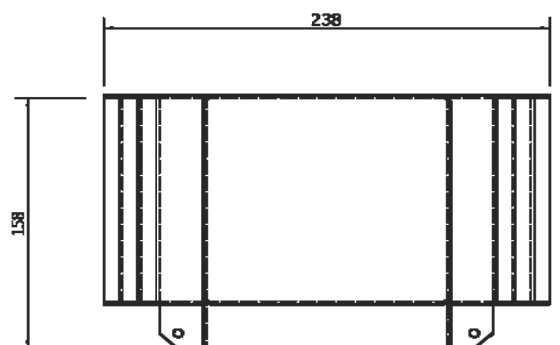
We specialise in using reliable and advanced technology to apply liquid PVC and silicone coatings, which permit us to make reliable joint covering to protected components so that they achieve optimum electrical resistance and insulation from external agents. We can work on proto, small and medium numbers following custom made planning.

## CUSTOM SOLUTIONS

Termoresine offers solutions with a high level of customisation, with high technical characteristics and reliability.

The result is a service that protects components of different complexity and size, guaranteeing electrical, mechanical and thermal resistance.

In collaboration with our partners, we can develop custom coatings on specific requests.



# LIQUID RESINS

PVC and silicone coatings are materials that are highly resistant to electrical currents. Insulating joint coverings that make use of these products are characterised by low electrical conductivity and can withstand high voltages.

The dipping technique is used for the application. A mould of the component to be insulated is preheated and immersed directly in the liquid resin. Once applied, the cover is hardened in a crosslinking oven and forms a continuous protective casing that can be put over the final component. This shell is electrically insulating and also guarantees protection from dust and external agents that could cause a short circuit.

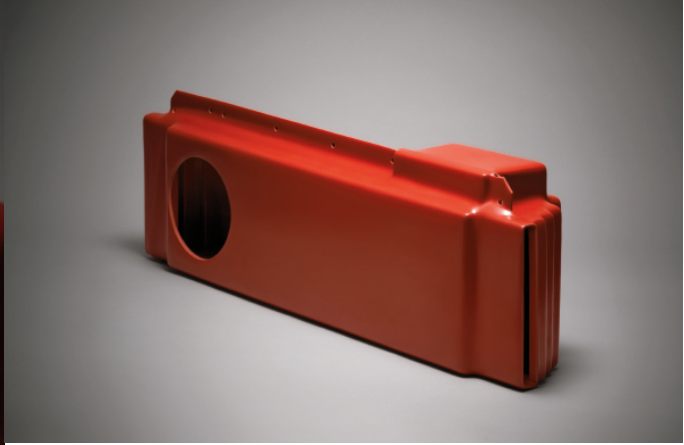
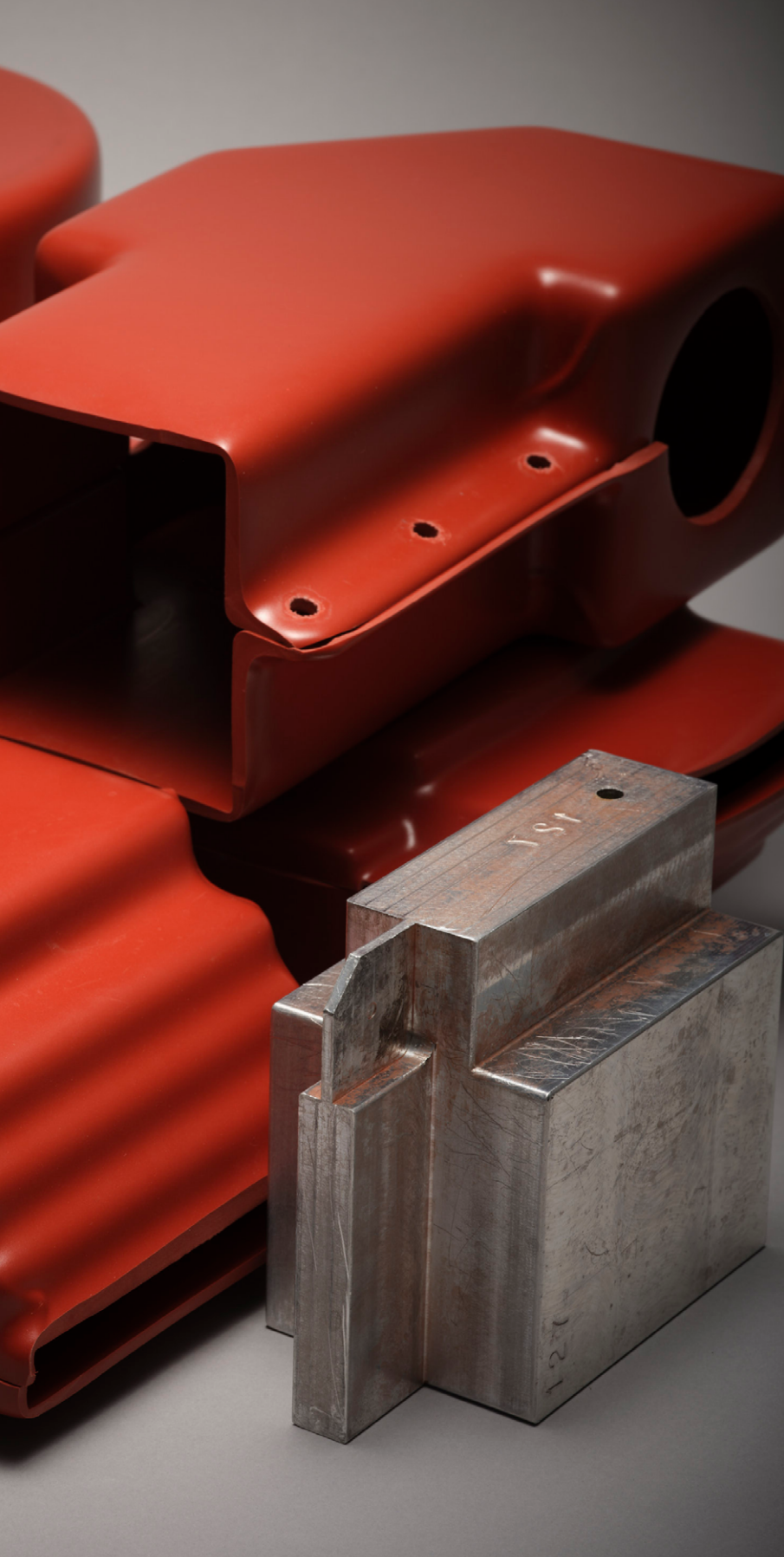
Coverings made with liquid resins can be used to protect against high voltages (HV and UHV).

Liquid resins are also able to create semi-rigid or flexible protections that allow you to insulate braids, lamellars and all products where it is also necessary to maintain the flexibility of the component itself.



## ALISEAL





## ALISEAL High-Performance Insulating Coating

ALISEAL is a high-performance thermosetting resin developed by Termoresine for demanding electrical insulation applications. With excellent dielectric strength (20 kV/mm) and thermal stability up to 155 °C, ALISEAL is the ideal solution for joint covers, copper and aluminum conductors, and components requiring consistent and uniform insulation.

Applied via dipping, it ensures a smooth and durable coating that:

- Offers outstanding electrical insulation performance
- Protects conductors from moisture, dust, and external agents
- Maintains flexibility for braided or laminated components
- Complies with strict safety standards UL 94 V0 certified

Thanks to its reliability, ALISEAL is a key solution for professionals in the power & distribution, energy, and industrial sectors, where long-lasting insulation and service continuity are essential.

### Aliseal PVC 086C

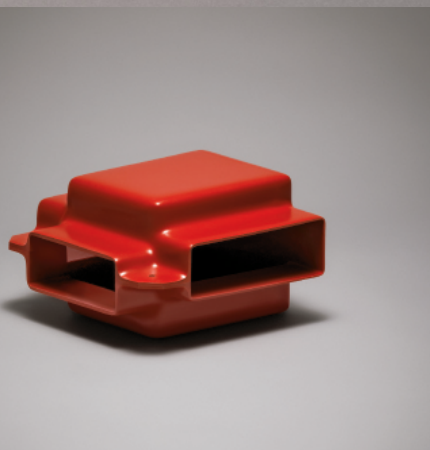
Colour: Red

Dielectric strength: 20 kV/mm

Maximum operating temperature: 155°C

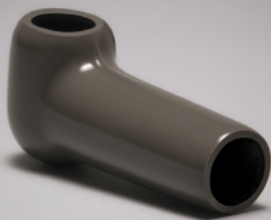
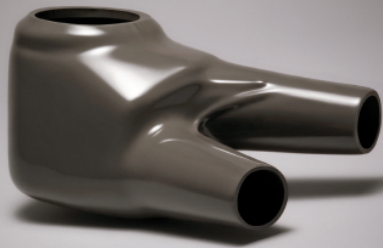
Thermal conductivity: 0.3-0.4 W/(m x K)

Certifications: UL 94 V0





SILICONE



## SILICONE

### Flexible and Durable Electrical Insulation

Termoresine's RTV silicone is an advanced elastomeric coating designed for high-performance electrical insulation in the most challenging conditions.

With dielectric strength up to 15 kV/mm and thermal stability above 180 °C, it ensures dependable protection for both conductors and components in extreme environments.

Key benefits include:

- Excellent electrical insulation with low conductivity
- Long-term elasticity and adhesion, even after repeated thermal cycles
- Superior resistance to weather, humidity, and fire (UL 94 V0, EN 45545-2 R22 & R23 HL3)
- Perfect adaptability to complex geometries, without compromising flexibility

Thanks to its unique properties, silicone is the ideal choice for the railway, aerospace, and high-performance automotive sectors, where lightweight materials must deliver both durability and reliability.

**Silicone RTV 4082**

Colour: Dark grey

Dielectric strength: 15 kV/mm

Maximum operating temperature: > 180°C

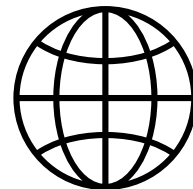
Certifications: EN 45545 HL3, UL 94 V0

# MARKETS

We operate in the railway sector, which currently represents our core business.

We are continuously expanding into all major fields, ranging from energy to industrial, aerospace and naval.

Recent technological developments allowed us to enter the automotive market, in particular the Supercar and Hypercar sectors, and also markets where both good thermal dissipation and electrical insulation are needed.

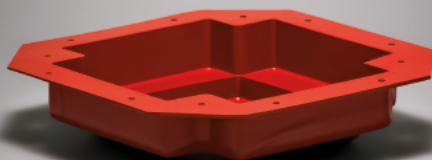


45  
COUNTRIES  
WHERE OUR  
ITEMS ARE  
USED

CERTIFIED  
MANAGEMENT SYSTEMS

**CQY**  
CERTIQUALITY

UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015





[www.termoresine.it](http://www.termoresine.it)



**TERMORESINE**

electrical insulation leading company