



## The benefits of ResQ-tape self-fusing silicone tape

### *Why Silicone based?*

ResQ-tape self-fusing silicone tape is the best choice when flexibility, longevity and ultimate resistances are needed for system/object protection.

#### **Dielectric Strength**

Insulates a minimum of 1600 Volts per 0,1mm adding up to an outstanding 12kV per layer on the ResQ-tape Professional with a standard thickness of 0,5mm.

Traditional vinyl electrical tape is rated maximum 600 Volts per layer.

#### **Flexible**

ResQ-tape can be wrapped around irregular shapes to create an air and water tight seal. Common tapes (like Duct tape) struggle to create a seal due to the stiff composition.

#### **Adhesive-Free**

ResQ-tape does not have any conventional adhesive layer. The tape is an “open chain polymer” that permanently fuses to itself upon contact, creating a massive singular layer through cross-linking of the molecules. This is a significant advantage over adhesive tapes which cracks after a period of time due to the aging of the adhesive. Adhesive tapes also stick to the surface and leave residue behind after removal. ResQ-tape can be removed leaving the substrate undisturbed.

#### **Low Profile & Aesthetic**

Finished wrap is a low profile alternative to zip ties, providing additional clearance for systems assembly. ResQ-tape also doesn't make an imprint on a wire which avoids disturbance of the signal throughput (ideal for glass fiber optic cables). Can be color matched for aesthetic purposes.

#### **Chemical resistant**

ResQ-tape is naturally resistant to most chemicals (see separate technical sheet) including oil, kerosene, gasoline and other aromatic hydrocarbons.

#### **UV Resistant**

Generic vinyl and duct tapes do not hold up against ultraviolet rays. ResQ-tape is naturally resistant to UV exposure and will not fade or breakdown in direct continued sunlight.

#### **Weather & Salt Resistant**

ResQ-tape can withstand rain, sleet, snow, ice and other harsh weathering effects, slowing and in some scenarios, completely protecting systems operation beneath the layer.

#### **Corrosion Inhibitor**

ResQ-tape protects an object against corrosion or will slowdown the effects of corrosion significantly, especially on underground assets. A special clear ResQ-tape is available to monitor corrosion effects over time.



### **Gas Permeability**

Oxygen, Hydrogen & Helium can permeate through the tape, preventing buildup of harmful gases between layers and providing safer exit. Natural gasses like LPG, butane, propane & natural gas will not penetrate the tape.

### **Temperature Range**

ResQ-tape withstands temperatures from at least -65°C up to 260°C, making it useful on most global areas and climates. Other tapes usually fail, melt or breakdown at temperatures exceeding 80°C.

### **Aging & Longevity**

ResQ-tape ages very slowly. The shelf life exceeds 10 years and after application the tape last at least 25 years. Many other conventional tapes start to deteriorate after 2 years.

### **Applications**

- Corrosion Protection
- Weatherproofing
- Electrical Insulation
- Fastening
- Cable Management
- Encapsulation
- Masking
- Contaminant Protection
- UV Blocking
- Leak Sealing
- Grip restoration
- Color coding / ID