



# Emergency Repair Self-Fusing Silicone Tape





Darco Industries offers a wide range of high quality thermal insulation fabrics and accessories for a multitude of industrial equipment & applications. Our team helps fabricators engineer material systems solutions designed to suit specific chemical and physical environments

### Who we are

Darco Industries is an import/wholesale business established in July 2010 by James Dar BSc who has technical sales experience since 1980. Since 1998 his time has specifically been with high temperature textiles and advanced industrial insulation materials.

Our success is primarily based on fostering competent trust with customers and suppliers. We have long established relationships with the worlds leading glass textile suppliers and core clients spread around Australia and overseas.

Darco Industries strive to improve our product range and services by supplying our customers with cost effective, engineered material system solutions

We understand the properties of our materials and suitability for the various applications where physical and chemical factors like temperature, abrasion, vibration, tensile strength, thermal conductivity, UV, fire ratings, sound absorption, chemical resistance, liquid and vapour permeability etc.

## “Your Problem, Our Solution”



### The Darco Advantage

Darco Industries is Australia's leading importer and wholesaler of the widest range of specialist thermal insulation and fire protection glass textiles and accessories. Based in Perth, Western Australia, our customer focused staff has a proven record of being very responsive to customer needs and special testing demands. Our client base is worldwide and consists of the automotive OEM's, heavy-duty engine OEM's, industrial suppliers and hydraulic companies.

Darco is a leading provider of quality and thermal insulation solutions serving a wide range of industries around the world. From industrial to commercial, aeronautical to marine, Darco Industries are dedicated to adding value to fabricators products and processes, supporting their success in the global marketplace. Darco has the expertise, resources and global reach to support its clients through its extensive network of manufacturers and suppliers in over 100 countries around the world.



### Darco Industries

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WA, 6163  
Australia



Darco emergency repairs self-fusing silicone tape is made of high quality silicone rubber; the special formula gives the tape an outstanding and unique capabilities..

### What is Self-Fusing Silicone Tape?

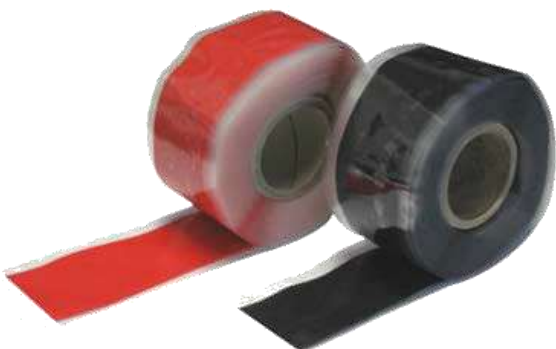
It is a non-adhesive and only bonds to self, extremely versatile silicone tape. It conforms to irregular shapes and forms a permanent air-tight & water-tight seals in seconds. It's used in rescue and repair emergencies.

It's resistant to weathering, salt water, UV rays, fuels, oils, acids, solvents, road salt and abrasion. It has a long life at outdoor. To ensure a consistently reliable product, we have used top quality silicone rubber.

Property	Standard	Test Result	Test Method
Density	≥1.1g/cm3	1.16g/cm3	
Operating Temp	260°C (500°F)	260°C (500°F)	
Brittle Temperature	-65°C (-85°F) 65°C(-85°F)		
Hardness Durometer	45-55	47	ASTM D2240
Tensile Stress at 100% Strain		173psi	ASTM D412
Tensile Strength	≥710psi (≥4.9Mpa)	1508psi (10.4Mpa)	ASTM D412
Elongation	≥200%	605%	ASTM D412
Tear Strength		6.8kN/m	ASTM D624
Dielectric Strength	400V/mil (15.75kV/mm)	1000V/mil (39.6kV/mm)	ASTM D149

### Directions

- 1 Wrap around the object by stretching and overlapping onto itself by at least 30% elongation. For high pressure leaks, stretch to maximum, the tighter the wrap, the quicker and stronger it bonds.
- 2 Continue wrapping around object by overlapping 50% onto itself so that half the width is covered with the next wrap. The first and last wrap should completely overlap onto the previous wrap for a complete bond
- 3 Additional layers may be necessary and the same process should be used over the previous layers. It works on either side. Additional silicone tape can be applied over project at any time in the future.
- 4 For high pressure leaks, additional wrapping may be required. Most hose repairs can be repaired with 3-5 layers in thickness, and wrapping 3 to 5 inches in each direction away from the leak; however, additional strength can be added simply by wrapping more silicone tape.
- 5 For electrical wiring, it is not necessary to stretch tightly. In fact, it will be more resilient to abrasion when it is not stretched as tightly.
- 6 For longer shelf life, please keep the tape in sealed conditions, particularly away from moisture, dirt, air, extreme heat and extreme light. Stocked properly, 2 years or more is guaranteed.





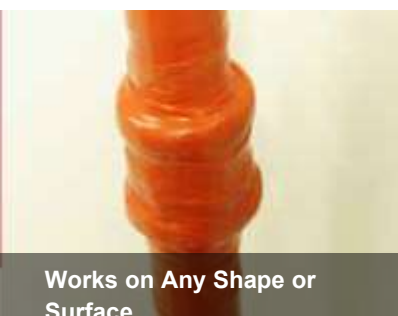
Leaves No Messy Residues



Traditional Duct Tape, Leaves Residues When Removed



Works on Oily Surface



Works on Any Shape or Surface



It is Class H insulation.

While not adhesive to the repaired object, it is self-adhesive, securing the bond well. It is supplied in rolls with an interleaving layer, to prevent the tape from amalgamating before use. This tape is used extensively in aviation and aerospace wiring applications as a splice or wrapping tape due to its non-flammability

### Applications

- Automotive
- Marine
- Electrical Class H
- Plumbing
- Sealing
- Insulating and General Purpose Applications
- Water Hose & Pipe Repair
- Weatherproofing
- Electrical Connections
- Class H Electrical insulation
- Fittings & Hose Seal
- Bundling Wires
- Boat Rigging
- Sport & Tool Handles
- Plumbing Repair
- Rope Ends
- Bicycle & Wheelchair Handle Wraps
- Emergency Radiator Hose Repair
- Emergency O-Rings & Seals



Pull plastic covering off the tape



Tightly wrap around damaged pipe



Pull tight when done before cutting



Press loose end down tight to adhere to itself  
Pipe is now water and airtight