

- Doubles the heater's heat transfer capability
- 50% reduction in heat losses
- Operating temp range -60°C to +250°C
- Lowers operating costs
- Rapid heat raising
- Lower thermal insulation costs
- Remains flexible allowing lateral heater movement
- Easy to install and maintain
- System solution
- Protects against metal surface corrosion

PURPOSE

SILARM thermal transfer compound has been designed to ensure effective heat transfer from heating cable, or heating elements, to the surface that is to be heated. It is ideal for heating of pipelines, tanks and vessels. It is particularly suited for rail and monorail heating applications, where it is impossible or impractical to effectively insulate the heated surface. It is capable of operating in temperatures between -60°C and +250°C.

PRINCIPLE OF OPERATION

SILARM has a high thermal conductivity. When applied beneath the heater, it eliminates gaps between the heater and the heated surface, increasing the heat transfer capability of the system. The use of SILARM also helps to prevent overheating of the heater, by dissipating the heat more effectively.

FEATURES

SILARM is available in two forms - vulcanising and non-vulcanising.

SILARM-3 is a non-vulcanising single component paste that is pink in colour and has a high viscosity. It will not run when applied to a vertical surface. It accurately fills any gaps or cavities.

SILARM-81 and SILARM-82 are vulcanising two-component pastes of green and white colour. The vulcanisation period is between 4 and 24 hours. They are highly heat resistant, fixing the heater to the heated surface ensuring optimum heat transfer.

No additional covering is necessary. After the paste has been applied, the physical properties of the thermal bridge created between the heater and the heated surface are retained.

Thermal insulation may now be applied immediately over the paste layer.

SILARM is resistant to low ambient temperatures down to -60°C and to high temperatures up to 250°C. It remains unaffected by temperature excursions within this range. This ensures the stable operation of the heating circuit during temperature cycling.

SIMPLE APPLICATION

SILARM is easy to apply. The paste is available in 600ml foil tubes, or in containers up to 30 litres in volume.

The paste is extruded from the 600ml tube and applied to the surface using a special application gun. A simple dispenser is available for applying the paste from the larger containers.

SAFE

All SILARM components are absolutely safe and non-toxic, nor do they emit any substances that are hazardous to health.

GUARANTEE

Routine QA and production practices ensure sustained performance of the product, which together with the high quality components used, means that the life time of the paste is guaranteed for not less than 10 years.

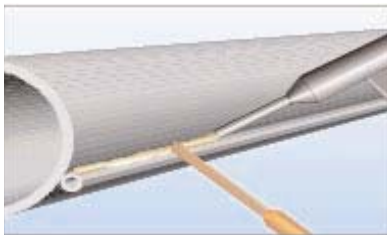


SPECIFICATION

MAIN PROPERTIES

Product type	SILARM-3	SILARM-81	SILARM-82
Number of mixed components	1	2	2
Proportion of components	-	1:1	1:1
Vulcanisation time (hrs)	Non-vulcanised	4	24
Max temperature withstand	180	250	250
Min temperature withstand	-60	-60	-60
Thermal conductivity not less than (W/m°C)	0.86	0.8	0.8
Density, not less than kg/m ³	2.2	2.2	2.2

TYPICAL APPLICATION EXAMPLE - 1



SILARM is applied by means of an applicator gun and filling knife, to improve the heat contact between a pipe that is to be heated, and the heater tube, or heating cable.

LIFE EXPECTANCY

10 years

ORDERING INFORMATION

Example SILARM - 3
Heat conducting paste SILARM |
Product type |

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