

PRODUCT DATA SHEET

Product	G THERM
Type	A dense black matt thermal heating paint based on water-borne self cross-linking pure acrylic resin and graphene providing reliable electrically heated coatings that operate in the long-wave infra-red range.
Intended Use	Provides thin carbon coatings for highly energy efficient infra-red heating solutions, i.e. for underfloor, walls and ceiling heating and FIR heating panels. Suitable for indoor and outdoor use.
Special Features	Easy application: the coating can be applied in any way. Quick drying. Excellent covering power. Clean brushes with water. Breathable. Low emissions, low odour. High adhesive properties. G THERM has a low electrical resistance value and ensures uniform heating of the coating when connected to an electrical power source with DC or AC voltage. The effectiveness of the G THERM coating was tested and certified at NPL, the national measurements standards institute for the United Kingdom. The maximum heating temperature of the coating is up to 150 degrees Centigrade and depends on the magnitude of the supply voltage. Electrical Resistance 1.0 – 2.0 Ohm/Sq. Voltage range: any voltage, AC/DC, from 1 – 240 Volts depending on the resistance of the heater layer. Thickness of single layer coating 80 – 100 microns.
Preparation	Surfaces to be coated must be clean, dry and free from wax, grease and contaminants. If already painted, remove any flaking paint with Rustins Strypit Paint and Varnish Stripper .
Application	Stir before use. Apply liberally and evenly with synthetic fibre brush or roller.
Coats	Up to 3 coats can be applied to achieve the required value of the electrical resistance of the coating. The specific resistance of one layer of coating 80 – 100 microns thickness is 1 – 2 Ohm/square.
Drying Time	Touch dry within 30 minutes, depending upon temperature and humidity.
Re-coating Time	3 hours minimum, depending upon temperature and humidity.
Application Temp.	Ideally 15-25°C. Do not use below 10°C, or in conditions of high humidity.
Coverage	Approximately 6 sq. m. per litre.
Maintenance	Clean painted surfaces with a mild detergent solution.
Compatibility	Can be applied over all commonly used emulsion paints, concrete, drywall and clean organic plasters or renders.
Settlement	STIR WELL BEFORE USE. Ensure any sediment is thoroughly mixed in.
Shelf-life/Storage	Store in a cool place. Keep away from children. Close the open paint jar tightly after use and store in a cool place for no more than 12 months. Protect from frost.
Hazards	Contains a mixture of 5-chloro-2-methyl-2h-isothiazol-3-one [ec number 247-500-7] and 2-methyl-2h-isothiazol-3, surfactant #2, ammonia solution, butyl diglycol, 1,6 dihydroxy-2,5-dioxahexane-one. May produce an allergic reaction. Keep out of reach of children. Do not get in eyes, on skin or on clothing. IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. IF ON SKIN: Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves. A full Safety Data Sheet is available upon request at www.rustins.co.uk .
Clean-Up	Remove as much paint as possible and return to this container. Clean brushes and hands immediately after use with water. If dried on, clean equipment and brushes with either Rustins Brush Restorer or Cellulose Thinners .
Sizes	250 ml, 500 ml, 1L.