Description:

Chemtools® PCT-7000 Silicone Potting Compound is a high quality, two component, opague RTV silicone rubber that features excellent electrical insulation, moisture and temperature resistance properties that is UL 94 V-0 recognised.

It is ideal for potting and encapsulation of electronic and electrical modules for weather proofing and mechanical shock protection. The two components are low viscosity for ease of mixing and for the removal of entrapped air. The cure process is non-exothermic. The cured elastomer is opaque and moderately hard. It is non-corrosive to copper.

Chemtools® PCT-7000 Silicone Potting Compound is available coloured grey or white.

Physical Properties (Cured):

Colour - Part A:	Dark Grey(-G) or White(-W)
Colour - Part B:	White (-G and -W)
Flammability(UL)	Recognised UL94 V-0 @6mm
Mix Ratio	1:1
Density:	1.05 (g/cm ³)
Gel Time:	<30 (mins @ 25℃)
Complete Cure:	3 – 7 (days @ 25℃)
Tensile Strength:	≥1.0 (MPa)
Hardness:	20 – 30 (Shore A)
Shear Strength:	≥1.0 (MPa)
Peel Strength:	≥3.0 (N/mm)
Tensile Elongation:	≥250 (%)
Temperature Range:	-60 to +300(°C)
Volume Resistivity:	≥1.0x10 ¹⁵ (Ωm)
Breakdown Voltage:	≥16 (Kv/mm)
Dielectric Constant:	2.9 (@1.2MHz)

(NB The above mechanical and electrical properties have been measured at 25°C, RH of 55% and after curing for 7 days)



Instructions: MIXING

- 1. Premix the contents of both containers to ensure any settled components are incorporated uniformly.
- 2. Measure out equal components of the product by weight or by volume and mix gently but thoroughly.. Stir up from the bottom of the container and around the sides until the colour is uniform. Mixing may be performed mechanically or by hand, but care should be taken to avoid entrapment of air.
- 3. De-air by allowing to stand for 5-10 minutes. For critical applications where small voids are undesirable, reduced pressure may be used. Partially filled containers should be subjected to a vacuum of 5-10mm of Hg for 5-10 minutes.
- 4. Pour slowly into the cavities and tap gently to release any entrapped air pockets.

CURING:

Initial cure is achieved in 16-24 hours at room temperature. To accelerate the cure, higher temperatures may be used. 2-4 hours at 65°C is usually sufficient.



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Storage:

Store in a cool dry place out of direct sunlight. The shelf life of unopened containers stored at <25°C is 1 year. This product may settle during storage. Do not return any unused material back into the containers.

Availability:

1Kg White Resin Kit 5Kg White Resin Kit 1Kg Grey Resin Kit 5Kg Grey Resin Kit PCT-7000W-1KG PCT-7000W-5KG PCT-7000G-1KG PCT-7000G-5KG

Safety:

Avoid breathing any fumes, mists and vapors. Use of approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow chemical fumes, and where applicable, solvent fumes to dissipate. The use of goggles, rubber gloves, is required. If the material gets into the eyes, flush thoroughly with clear water for fifteen minutes; then seek medical treatment. Avoid skin contact. Material may cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flames or ignition source.

PRECAUTIONS: This product capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

Warranty: All products purchased from or supplied by Chemtools are subject to terms and conditions set out in the contract. Chemtools warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Chemtools is consider accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Chemtools makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.

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