Peppers Cable Glands Limited
Stanhope Road
Camberley
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United Kingdom

Technical Data Sheet

Peppers T2000 Compound

Peppers T2000 Compound is a rapid curing two-part epoxy resin system that is capable of operating at temperatures below -60°C. The system cures at room temperature to produce a flexible, tough, and highly water resistance material. Supplied in convenient 50 ml and 30 ml cartridges.

Features

- Flexibility below -50°C
- Highly water resistant
- Tough and impact resistant
- Highly adhesive
- Rapid Gelling and Curing

Typical Uncured Physical Properties

Property	Base	Hardener	Mixed System
Viscosity (mPas)	2600	7300	5000
Colour	Red	Amber	Red
Specific Gravity	1.13	1.05	1.10
Mix Ratio	1.07	1	By Weight
	1	1	By Volume

Pot Life	4 Minutes	25 g @ 23°C
Gel Time	6 Minutes	25 g @ 23°C
Complete Cure	24 Hours	25 g @ 23°C
DEMOULD TIME	25 Minutes	25 g @ 23°C

Typical Cured Properties

Property	Result	Units
Shore D Hardness (72 hrs)	70	
Elongation (-20°C)	20	%
Tensile Strength	>20	MPa
Cure Time	24	Hours
Thermal Conductivity	0.25	W/mK
Operating Temperature	-65 to +140	°C

Note: The technical information and data should be considered representative or typical only and should not be used for specification purposes.

Storage and Shelf Life

Store between 5-30°C, in dry conditions and out of direct sunlight. When stored under these conditions the shelf life of this material is 2 years. If stored at 5°C, the shelf life of this material is 5 years.

How to Use

Surface preparation: To achieve optimum adhesion, surfaces must be clean and free of oil, grease, or dirt.

Mixing: Remove cap from cartridge and assemble nozzle. Push plunger and dispense a small amount of resin to fill the nozzle. This clears the nozzle of air and prevents potential dispensing issues. Apply to surfaces immediately.

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Registered in England No: 2720654

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Health Precautions

Refer to Product Label and Safety Data Sheet for health and safety information before using this product. All Products should be used in accordance with your own COSHH Assessments. It is recommended that the product Safety Data Sheet is downloaded from our website for further advice.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that the compound manufacturer believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

The quoted pot life of the mixed system is based on 23°C and may be longer at lower temperatures and shorter at higher temperatures. Keeping the cartridges warm before use will make dispensing the resin easier. Please ensure that surfaces that require adhesion are clean and dry. Roughening smooth surfaces and then cleaning/degreasing will give the best results.

Many factors beyond the control of Peppers and uniquely within user's knowledge and control can affect the use and performance of a Peppers product in a particular application. Given the variety of factors that can affect the use and performance of a Peppers product, the user is solely responsible for evaluating the Peppers product and determining whether it is fit for a particular purpose and suitable for the user's methods of application.

FREQUENTLY ASKED QUESTIONS

Is Peppers T2000 Compound safe to use?

Peppers T2000 Compound is as safe to use as other epoxy adhesives found in retail stores. Epoxy resins are skin and eye irritants and known sensitizers. Direct skin contact with uncured material may cause an allergic reaction in some individuals. The use of impermeable plastic or rubber gloves when mixing and handling uncured Peppers T2000 Compound is highly recommended. Hands should be washed with soap and water immediately after using. If in the unlikely event that the cured compound is sanded a mask should be worn to protect against the dust generated. This is generic to any fine dust not necessarily specific to the product. The T2000 Safety Data Sheet can be downloaded from our web site which contains full details of Peppers T2000 Compound.

What is the service life of cured Peppers T2000 Compound?

Calculation of tensile strength retention on aging at 24°C (75°F) indicates that cured epoxy resins can have a useful lifetime greater than 50 years. They are extremely stable materials and highly resistant to degradation by environmental influences, such as atmospheric moisture, oxygen, and sunlight. They are not sensitive to microbial action and will not rot. In contrast to metals like copper, steel, iron and aluminium, epoxies are highly resistant to corrosion or deterioration by dilute acids and caustics and will withstand the influence of mildly acidic water. Epoxy resins contain no volatile ingredients and, therefore, undergo no weight or volume change due to plasticizer evaporation. Because of their stiff, hard character and inherently excellent adhesion too many different materials in conjunction with this outstanding environmental resistance, epoxy resins can easily outlast the materials they are used to seal.

What happens if only part of a Peppers T2000 Compound cartridge is used? Can the rest of the cartridge be saved for later application?

Peppers have calculated the approximate amount of compound to be used and there should be only a small amount left over after completing the joint. However, the cartridge can be capped, and any unused resin can be dispensed later providing it is suitable for use. A fresh nozzle provided by Peppers will be required.

How do I dispose of unused compound?

If the compound has been mixed and it has hardened, then it can be disposed of as general waste as it is inert. If the cartridge is not mixed, then it should be disposed of as a hazardous waste in accordance with local regulation.

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