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Penloc VT Plus – Technical data sheet

PRODUCT DESCRIPTION

Penloc VT plus is a toughened 1:1 ration structural adhesive formulated for bonding thermoplastics, metals and composites. The combination of minimal surface preparation and rapid fixture time makes it ideal for a variety of assembly operations.

APPLICATIONS

Penloc VT Plus is used for outdoor weathering or solvent exposure applications, thermoformed plastic assemblies, PVC, Fibreglass, Vinyls, ABS, Steel, FRP, Coated Metals, Aluminium, Acrylics, Phenolic, Polycarbonate, Styrenics, Wood, Concrete and Ceramics.

USEFUL NOTES

Benefits:

- Penloc VT Plus has been tested and approved for use within ovens for powder coating and paint bake cycles up to 220°C.
- Penloc VT Plus working time 4-6 minutes, fixture time 10-12 minutes.
- Minimal surface preparation required.
- High resistance to hydrocarbon based fuels (petrol, Jet fuel, motor oil and Hydraulic fluid).
- Thixotropic / Non-sagging.
- Bonds dissimilar plastic combinations.

TECHNICAL FEATURES

| | Part 1 Base Resin | Part 2 Activator |
|---------------------|---|-------------------------------|
| Chemical Type | Methyl Methacrylate Methacrylic acid Organic peroxide | Methyl Methacrylate |
| Colour | Off white | Off white |
| Viscosity | 50000 - 100,000 cps | 50000 cps - 100,000 cps |
| Service Temperature | -40°C to 150°C Constant temperature | |
| Service Temperature | 220°C Intermittent temperature | |

TYPICAL BOND CHARACTERISTICS

| | |
|------------------------|---------------------|
| Tensile Strength (psi) | 3,500 - 4,500 ps |
| Modulus (psi) | 125,000 |
| Bond strength (psi) | 3,500 max |
| Elongation (max%) | 50-75% |

PROCEDURE FOR APPLICATION

For optimum performance, surfaces should be solved wiped, free from heavy grease deposits, oil, dirt or other contaminants.

STORAGE

Adhesive should be stored between 10°C - 27°C and in a dry place when not in use for extended periods. Penloc VT Plus has a shelf life of 6 months when stored at room temperature in its original container.

HEALTH & SAFETY IN USE

Usual hygiene procedures should apply. Do not swallow. If skin contact occurs, wash with soap and water. Splashes to the eyes should be washed out thoroughly with water, if in doubt seek medical advice.

This Technical information sheet does not constitute a Material Safety Data Sheet. Before using this product

ensure you have read and fully understood Penloc VT Plus Material Safety Data Sheet.

PRESENTATION

Penloc VT plus is available in 50ml twin gun syringe and 400ml twin gun syringe.

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No liability is accepted for any injury, loss or damage arising directly or indirectly from the use of the Company's products or from the use of information given in our publications, which is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the products are suitable for their intended use.

