


TECHNICAL DATA SHEET				
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	Page No:		1 of 2	
PRODUC		Trimweld PC100		

Product Description.

Specifically targeting bonding of (LSE) low surface energy painted metals & plastics, post powder coating processes, Trimweld PC100 is a heavy duty acrylic pressure sensitive adhesive capable of operating at temperatures of up to 120°C.

Features/Benefits

- Specially formulated for low surface energy bonding.
- Incredibly high bond strength delivers durability and longevity.
- Special low surface energy adhesive formulation means you may not need to abrade or prime.
- Withstands:
 - Extremes of temperature.
 - High forces applied to the bond.
 - Water.
 - Most solvents and chemicals.
 - Differential expansion and contraction.
- Interior or exterior performance.
- Easy release siliconised filmic liner improves assembly times.
- High tack and good initial handling strength for improved production speeds and aesthetics.
- Can replace spot welds or mechanical fasteners.
- Ultra-high shear and high cohesion – ensuring the tape (and bond) remain strong under stress.
- Resists vibration.
- 1.1mm thickness Grey/Black tape with red filmic liner.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Applications

Trimweld PC100 offers excellent adhesion to the following substrates:

- Low Surface Energy Plastics.
- Metal.
- Glass.
- Medium Surface Energy Plastics.
- Powder coat paint.
- ABS.

Product Specification

Parameter	Specification
Product	Double-Coated PE Foam Tape
Colour	Black foam
Liner	Red PE 0.08mm
Format	Jumbo logs/logs/slit rolls (bespoke widths and lengths)
Useful Width of Log	Minimum 930mm
Length	33m
Carrier	Closed cell PE Foam, 930kg/m ³
Adhesive	High performance solvent acrylic, pressure sensitive.
180° Adhesion Substrate: Stainless Steel Speed 300±10mm/Min Tape width: 10mm	RT x 2hrs – 1800 gf/10mm RT x 24hrs – 1900 gf/10mm 80°C x 250hrs – 2000 gf/10mm -20°C x 250hrs – 1700 gf/10mm
Dynamic Shear Substrate: Stainless Steel Speed 200±10mm/Min Tape width: 10mmx10mm	RT x 2hrs – 7 kgf/cm ² RT x 24hrs – 8 kgf/cm ² RT x 48hrs – 8 kgf/cm ² 100%RH x 250hrs – 9 kgf/cm ² 80°C x 250hrs – 10 kgf/cm ²

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Dynamic Shear Substrate: Powder Coated Plate/Indicated substrate Speed 200±1mm/Min Tape width: 10mmx10mm	Powder Coated - 13 kgf/cm ² ACM – 16 kgf/cm ² Aluminium – 8 kgf/cm ² Acryl – 14 kgf/cm ² PET – 16 kgf/cm ²
Shelf Life	24 months from date of manufacture when stored at 21°C to 38°C (69°F to 100°F) and 50% relative humidity.

How To Apply Trimweld PC100

The surfaces to be bonded should be dry, dust and grease free and thoroughly clean. Avoid touching the exposed adhesive surface of the tape as this impairs the performance. The adhesive used on these tapes are pressure sensitive, so always ensure sufficient pressure is applied to the tape evenly over the whole surface to ensure the best bonding results.

1. Abrade (roughen) the surface to provide a 'key' to which the tape can bond, increasing the bond strength by as much as 35%.
2. Clean with **NovaBond Surface Cleaner**.
3. Prime the surface using **NovaBond Surface Primer**.
4. Independent tests at Loughborough University show that using the correct primer can increase final bond strength by up to 50%. Remove the blue silicon liner.
5. Align the parts to be bonded.
6. With firm pressure, apply Trimweld PC100 to one of the surfaces to be bonded.
7. Using a **NovaBond roller** will allow the double sided acrylic tape to wet out and reach ultimate bond strength more quickly.
8. Apply firm pressure to the bond with the NovaBond roller.
9. Ultimate bond strength will be achieved in 72 hours.

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