

# Tensor<sup>®</sup>

# TC59

## ECO-SOLV INFUSION ADHESIVE FINE MIST



TensorGrip<sup>®</sup> TC59 Eco-Solv builds on the proven performance of the long-standing TC49 Infusion / RTM spray adhesive, delivering immediate tack to securely hold reinforcing fibres in place during lay-up. Its fine mist spray pattern ensures excellent fibre control and contributes to a superior surface finish, particularly in carbon fibre applications. TC59 is fully compatible with polyester, styrene, and vinyl ester resins, and has also been successfully tested with epoxy resins at application rates of 9 g/m<sup>2</sup> or below. The short open time makes TC59 ideal for both demanding applications and smaller, precision lay-ups where speed and accuracy are critical. This next-generation formulation incorporates advanced Eco-Solv™ technology, utilising a lower-hazard, new-generation solvent system that is SVHC-free. It supports improved workplace safety and environmental responsibility while maintaining the trusted performance characteristics.

### ADVANTAGES

- ECO-SOLV SVHC free formulation
- Fine Mist Spray Pattern
- Epoxy Resin Compatability
- Excellent for carbon clear coat aesthetics



## TECHNICAL DATA

### SUITABLE FOR

	Fibreglass Infusion		FRP/GRP
	Thick Fabric		Thin Fabric
	Mist Spray		

### COVERAGE

	500ml 	22ltr 
Single-sided	8m <sup>2</sup>	N/A

*\*Depending on ambient temperature*

### APPLICATION

	Single Sided
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### OPEN TIME\*\*

	Up to 10 mins
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### FLASH OFF TIME\*\*\*

	30 secs
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### SPRAY TYPE

	Fine Mist
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### COLOUR

Clear	<input type="radio"/>
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### ADHESIVE TYPE

SBR

CHEMICAL TECHNICAL DATA

Viscosity

Solids 29%

System Flammability Flammable Solvent / Flammable Propellant

Heat resistance 90°C

Application Temperature 10 - 25 °C

Shelf life 18 months from date of manufacture

HANDLING & STORAGE

- For full handling and storage details consult Safety Data Sheet section 7.
- For optimum performance during use keep the aerosol/canister between 10°C and 25°C.
- Shake well before use.
- Do not store below 10°C.
- Do not allow the product to freeze.
- Do not store directly on concrete floor.
- Do not incinerate and keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Avoid exposure to direct sunlight and extreme temperatures.
- Do not use in confined spaces without adequate ventilation and/or respirator.
- For full PPE information, consult Safety Data Sheet section 8.
- Replace aerosol cap after use to protect actuator / valve.

COVERAGE

Coverage for this product is calculated on an average coatweight of approx 5 to 10 grams per m<sup>2</sup> based on a single sided bond. Lower coatweight may result in reduced bond strength and/or bond failure.



✘ Coverage too light



✔ Correct application = 20 grams/m<sup>2</sup>



✘ Coverage too heavy

SURFACE PREPARATION

Surface preparation is crucial for achieving effective adhesion, make sure that surfaces are clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc. Any contaminants may affect adhesion.

For best bonding results, the adhesive temperature range should be between 10°C - 25°C. Optimum temperature is 18°C.

PRE BONDING INFORMATION

- Prior to use, check compatibility by spraying a small test patch of the adhesive on the substrate. This product may degrade some substrates.
- Always test the adhesive to determine suitability for your particular application prior to use in production.
- Consult both MSDS and TDS documents.
- When working with absorbent materials a higher coat weight is recommended.
- ALWAYS READ THE LABEL.

CAUTION

**ALWAYS USE WITH ADEQUATE VENTILATION.** For Full PPE Information Consult SDS (Safety Data Sheet) Section 8. Whenever possible we recommend shaking the canister well before use.

DIRECTION FOR USE



AEROSOL



1. SHAKE WELL BEFORE USE

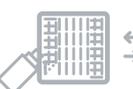
2. Make sure that surfaces are clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc.



3. Spray 10 to 20cm away from the substrate at a 45 degree angle to the surface, applying a uniform, even coat of adhesive to obtain 80% to 100% coverage of the surface.



4. If necessary, another coat of adhesive may be applied in areas that appear to require more adhesive materials, apply adhesive to both substrates to achieve higher bond strength.



5. When working with absorbent materials testing is recommended to achieve correct coat weight for optimum bonding.



6. Please note that a higher coat weight will reduce overall coverage.

7. Allow the recommended flash off time for the adhesive to tack off, temperature may affect drying times so ensure adhesive is touch dry.



8. Bring surfaces together with adequate pressure to form the bond, a roller is recommended to apply a uniform pressure to achieve maximum bond strength.

9. Allow 24 hours for the adhesive to fully cure.

10. If the aerosol spray nozzle clogs, turn the can upside down and press the nozzle until a small amount of propellant is expelled to clear the blockage.

AEROSOL REMOVAL OF ADHESIVE

To remove wet adhesive overspray, apply a solvent based cleaning product to the surface or to a rag and wipe away. Use warm soapy water to remove cleaner residue if required.

AEROSOL DISPOSAL



Dispose of the can as per your normal recycling process (subject to waste restrictions).



WARNING

Do not pierce or burn even after use.