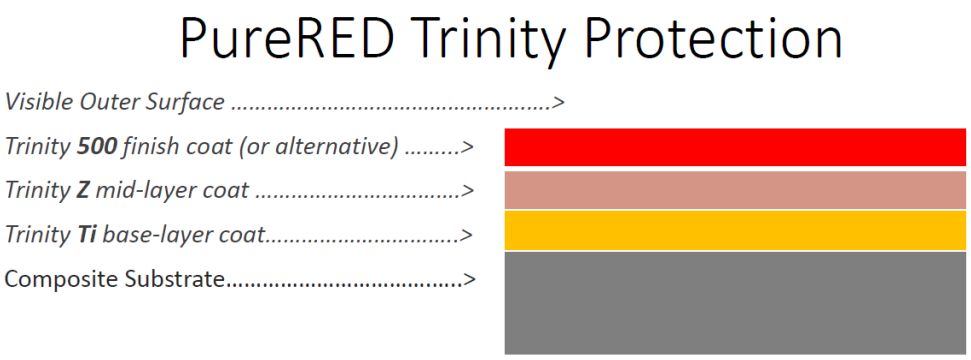
pure RED TRINITY

General information

PureRED TRINITY is unsaturated polyester based fire-resistant coating system designed for composites. It comprises of three functional layers each having specific features to deliver comprehensive fire and thermal protection to standard composite structures. The three individual products can be used separately as well. Also, the combination of Trinity Ti and Trinity Z may be used as a basis for thermal protection in conjunction with a finishing topcoat from the HybridRED range.

PureRED TRINITY has a water-resistant, glossy finish with excellent resistance to fire with very low smoke generation and heat transfer to the substrate.

Visual Representation of the Trinity System



Key properties

- ✓ can be used as a gel coat or as a finishing coating system
- ✓ layered protection – the combination of all 3 layers are recommended for optimum performance
- ✓ low smoke generation during fire
- ✓ very low heat transfer and release
- ✓ halogen-free

Typical properties

- ✓ RAL colours
- ✓ styrene based, MEKP catalyzed system
- ✓ wide application window
- ✓ can be applied with brush, roller or spray
- ✓ can be tailored to individual customer requirements
- ✓ apply in the order recommended for optimal performance

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Applications

- ✓ various composite parts in infrastructure, marine, railway and transport industry where both fire and thermal protection is required
- ✓ the Trinity system is not intended for outdoor environments where weathering resistance is a requirement – a combination of Trinity Ti (+ Trinity Z) + HybridRED would be recommended

Usage

The working temperature should be 15 – 25°C and relative humidity should not exceed 80 %. All surfaces must be dry and prior to application dust, oil or dirt is removed by appropriate means. Mix well before use. Add MEKP 1,5% accordingly and mix components well. The product is ready to use but can be diluted with SOLVENT 22 thinner if required. Working time is 30 - 40 minutes depending on the ambient temperature. Clean tools with acetone or equivalent.

PureRED TRINITY 500: application with high pressure spray gun (air assisted)

nozzle size: 415-615 pressure: 80 – 100 bar wet film thickness: 100 µm

PureRED TRINITY Z: application with high pressure spray gun

nozzle size: 417-419 pressure: 120 – 140 bar wet film thickness: 600 µm

PureRED TRINITY Ti: application with high pressure spray gun

nozzle size: 421 pressure: 120 – 140 bar wet film thickness: 800 µm

Layers are applied wet-on-wet, **with Ti in contact directly with the composite substrate**

If used as a (in-mold) gel coat system, the order of application is **500**, **Z** and then **Ti**.

If used as a (post-molding) finishing coating system, the order of application is **Ti, Z** and then **500**

Although PureRED TRINITY cures very well at room temperature, post-curing at elevated temperature (60°C, 10 – 15 hours) is highly recommended to reach the best overall properties.

Storage & Handling

Store indoors in a cool and dry place avoiding direct sunlight in the original tightly closed pails and drums. Opening the container reduces the storage time significantly. Therefore, it is recommended to use the product as soon as the container has been opened. Handle in a well-ventilated area. Detailed safety information is contained in a material data safety sheet.

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