

TRS-BEV1

Define | Design | Develop | Deliver

TRS-BEV1 from SWT Group is a durable, low VOC, water-based, Thermal Runaway Suppression coating, designed to mitigate thermal runaway events in battery packs for BEV's. When applied in strategic locations, the use of this coating will assist the battery management system in allowing the passenger extended time to evacuate the vehicle in a catastrophic event.

Its unique formulation has been engineered with intumescent properties. Developed to expand upon exposure to high temperatures, the material forms an expanding barrier that protects the substrate from heat and air, while at the same time interferes with the migration of decomposition products to the combustion zone.

TRS-BEV1 has excellent direct adhesion to aluminum, cold rolled steel, galvanized and e-coat. With inherent corrosion preventative properties, TRS-BEV1 provides the added benefit of extending life to the substrate as well as helps to reduce noise in the passenger compartment. Its water-based properties allow for easy clean-up and safe handling.

Physical Properties (Typical)			
Colour	Black /Tintable	Solids by volume	31 %
Solids by Weight	37 %	VOC Content:	<130 g
Density	9.22	Viscosity	2000-5000cP(77°F) 5@20

Dry Film Properties (Typical)	
Coverage	2.5 Mil DFT – 200 sqft/ Gal (6.75 Mil WFT)
Dry Film weight	6.43 g / sqft (with 2.5 Mil DFT) (0.014 lbs/sqft)

Performance Data			
Test	Method	Specification	Result
Adhesion to metal		100 % Adhesion, B 1 mm	Pass
Dry Time	Air cure	2.5 Mil DFT 40 min	
	Forced Cure	Accelerated via IR light/convection oven	

Application

Surface should be dry and free of loose material and or other contaminants. Recommended starting point DFT is 2.5mils. Depending on performance requirements, TRS-BEV1 can be adjusted to allow for different expansion rates and thicker application levels. TRS-BEV1 is engineered to be environmentally sustainable and can be handled without any special precautions. TRS-BEV1 is spray applied. This is a water based product. Keep from freezing.

The ratings and data contained herein are based on information obtained through controlled laboratory methods. We recommend that the customer determine the suitability of these materials before adopting them for its own use