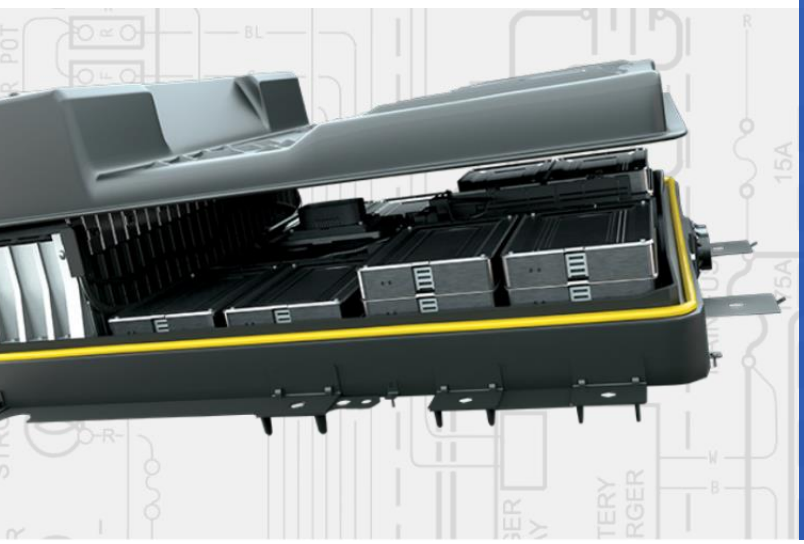
EV Seal 200

Technical Data Sheet



Battery Pack Elastic sealant

EV Seal 200 is an MS polymer system that can be used as 1K moisture curing or 2K accelerated cure option. Fast skin-over and green strength at room-temperature.

The product shows superb mechanical properties and provides unparalleled levels of sealing and resistance.

Suitable for adhesion to a wide range of substrates like plastics, metals, and composite materials.

Technology/Base:	MS Polymer
Type of Product:	Elastic high strength adhesive/sealant
Components:	1K or 2K
Curing:	Moisture
Appearance / Color:	Black
Consistency:	Thixotropic

Features and Benefits

- Excellent sealing capability against weathering, moisture, and other external influences
- Wide temperature range
- Solvent free
- Superb adhesion across wide substrate range
- High elasticity / elongation
- Fast skin formation / curing
- High chemical resistance
- Outstanding absorption of shock, vibration and CTE

Plug into our EV Adhesive Technology

Download our app to learn more

EV Seal 200

Technical Data

Physical Properties	Value	Condition/Method
Density	1.4 g/cm3	
Solid content by weight	100%	
Glass Transition Temperature	-59 °C	DIN EN ISO 6721-1
Specific Volume Resistance	> 1 · 10^{10} Ω·cm	Kö-test method 100262
Processing Guidelines and Parameters		
Mixing Ratio (Part A:Part B) by Volume for 2K versions	10 : 1	
Storage Temperature	5 °C to 25 °C	
Processing Temperature	5 °C to 35 °C	
Required Squeezing Pressure	4 bar to 5 bar	
Recommended Minimum Layer Thickness	2 mm	
Curing		
Skin Formation Time	10 min	Kö-test method 100109, Climate according to DIN 50014
Curing to Depth	3 mm/d	Within first 24 h; Climate according to DIN 50014
Change in Volume	-3%	DIN EN ISO 10563
Potlife for EV Seal 200–10 (2K version)	10 min	
Potlife for EV Seal 200–16 (2K version)	16 min	
Potlife for EV Seal 200–26 (2K version)	26 min	
Cured Material Characteristics		
Shore Hardness (Type A)	55	DIN ISO 7619-1, after 28 d; thickness of specimen = 6 mm
Young's Modulus at 100 % Elongation	2 MPa	DIN EN ISO 527 / DIN 53 504
Tensile Strength	3.2 MPa	DIN EN ISO 527
Elongation at Break	400%	DIN EN ISO 527
G_{10}-Modulus	MPa	DIN EN 1465
Lap Shear Strength	3.5 MPa	DIN EN 1465, substrates: aluminum/aluminum
Tear Strength	21 N/mm	ASTM D624
Service Conditions		
Service Temperature	-60 °C to 90 °C	30 min
Short-term temperature resistance	200 °C	

Handling and Clean-Up

Clean tools immediately after use. Once cured, the material can only be removed mechanically. Appropriate cleaners are listed in the product properties table. For further information please contact your local sales office.

Storage and Shelf Life

EV Seal 200 should be used within the shelf life specified on the packaging. The storage stability only applies to material stored under appropriate conditions (original unopened containers, recommended storage temperature)

Typical Packaging

310 mL Cartridge
600 mL Sausage
25 kg pails
270 kg drums

Safety and Disposal

Please read our Material Safety Data Sheet (MSDS) and the labels of each product before use. The valid safety regulations must be considered.

Please refer to the Material Safety Data Sheet (MSDS) for appropriate disposal instructions safety regulations must be considered

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