

HYLOMAR SPEZIAL

NON-SETTING SOLVENT FREE SEALANT
REDUCES ENVIRONMENTAL INGRESS

FEATURES

- + OEM approved sealant.
- + Reduces the effect of environmental ingress.
- + Easy to disassemble for servicing, maintenance and for recycling at the end of the battery life.
- + Reduces filiform corrosion.
- + Seals metal to metal, plastic composite to metal and plastic composite to plastic composite joints.
- + Compatible with most rubber seals.
- + Eliminates the need to E-coat.
- + Wide operating temperature range within the joint from -50°C to 250°C.
- + One component product.

ELECTRIC VEHICLE BATTERY PACK

Hylomar Spezial is a solvent free non-setting and non-hardening sealant which is ideal for sealing joints against moisture ingress thus reducing joint corrosion. It also acts as a form in place gasket which stops the leakage of fluids from within a joint.

Hylomar Spezial is resistant to the following fluids:

- + Water
- + Salt water
- + Fuels
- + Lubricants
- + Coolants

Typical Applications

- + Electric vehicle battery housing
- + Inverters
- + Connector housings
- + Electric motors

Automatic Dispensing

- + Hylomar Spezial has a unique rheology which allows for dispensing at room temperature without the need for specialised heating equipment
- + Suitable for high-speed dispensing
- + Immediate joint assembly if required
- + One component product

Service and Recycling

- + Eliminates joint damage when disassembling
- + Easy product removal from the disassembled joint surface
- + Unlimited assembly time during re-application
- + Apply from a standard cartridge dispenser

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ELECTRICAL PROPERTIES

ASTM D149 Dielectric strength / Dielectric breakdown voltage (23°C 50% R.H. Thickness 2.54mm)	6.5kV/mm
ASTM D257 Volume resistivity (23°C 50% RH applied voltage 500V dc for 60 seconds 2mm thickness)	$6.054 \times 10^9 \Omega\text{-cm}$
ASTM D257 Volume resistance (23°C 50% RH applied voltage 500V dc for 60 seconds 2mm thickness)	$5.326 \times 10^7 \Omega$
ASTM D150 Dielectric constant 3.558 (Applied Voltage 1V @1kHz thickness 2mm)	
ASTM D150 Power Factor 0.0306 (Applied Voltage 1V @1kHz thickness 2mm)	
ASTM D495 Minimum Arc resistance 65 seconds (thickness 2-3mm specimen carbonised, flamed and self-extinguished)	
ASTM D495 Medium Arc resistance 81 seconds (Thickness 2-3mm specimen carbonised, flamed and self-extinguished)	

TYPICAL PHYSICAL PROPERTIES

Colour	Blue
Specific Gravity	(ASTM D4659) 1.20-1.25g/ml
Flash Point	224°C (ASTM D92)
Appearance	Non-Setting Paste
Typical Temperature Range	-50°C to 250°C
Autoignition Temperature	445°C

PACK SIZE

- + 300ml Cartridge
- + 20kg Bucket
- + 200kg Barrel