Technical Data Sheet

Properties:

AKEMI® Screenflex EVO2 is an elastic adhesive based on newest technology for direct glazing applications of inorganic and organic glass. Formulated with a high viscosity which confer to the product an excellent high initial tack. It combines very high holding power to excellent mechanical cohesion properties providing a 1 hour drive away time tested according to FMFSS 212. The product is characterized by the following qualities:

- solvent-, isocyanate and PVC free
- very good weather- and ageing resistance
- a good adhesion on several substrates without the use of a primer
- neutral and almost odourless curing
- very high mechanical cohesiveness
- very good sealing properties
- paintable (also wet on wet)
- non corrosive
- protects against corrosion
- shock-proof, anti-vibration (shock- absorbent) and noise dampening
- resistant to thermal expansion & contraction and to material stress
- very low shrinkage
- low electrical conductivity

Application Area:

- Bonding in construction and industrial applications (e.g. glass – frame) and as well for the automotive and coach work industries especially where immediately or shortly after installation objects have to be moved during the manufacturing process
- Direct bonding windscreens in the automotive, marine and caravan sector
- Bonding of side panel on busses, trains, trucks
- Bonding of receptacles, boxes, cabins, disguises, containers, coverings, bottom covers, frames, panels, cuffs and protection joints

Instructions for Use:

Use as windscreen sealant:
There are different methods for replacing windscreen:
- short method (bonding on the old existing sealant)
- long method (bonding on the painted metal)

Short Method:
1. Remove existing sealant until a flat bead of approximately 2 - 4 mm high remains.
2. Ensure bonding surfaces are clean and dry, dust and grease free.
3. In case of contaminating substances use Acryclean for cleaning (use a clean, lint and colour free cotton cloth and wipe only in one direction). Allow the Cleaner dry for approximately 10 minutes before continuing.
4. For corrosion prevention protect bare metal with Epoxy Primer.
5. Use Multi Purpose Foam Cleaner to clean the new screen.
6. Cleaning of the ceramic coated layer can be done with Acryclean. Use a clean, dry and lint-free cloth for wipe only in one direction), let it dry for approximately 10 minutes.
7. Apply Screenflex EVO2 to the pinchweld on top of the existing sealant in a triangular bead 9 - 17 mm high.
8. The windscreen or glass must be fitted securely in place as soon as possible within 10 minutes.
9. Remove any excess of Screenflex EVO2 with a dry cloth prior to use.

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Use a wipe dipped in Acryclean to remove very excessive residues.

Long Method:

1. When applying Screenflex EVO2 direct to painted metal, always use MS-Prep - ensuring the product dries fully. Use a clean, dry and lint-free cloth for wipe only in one direction and wipe dry.
2. Use Multi Purpose Foam Cleaner to clean the new screen.
3. Cleaning of the ceramic coated layer can be done with Aryclean ensuring the product dries fully. Use a clean, dry and lint-free cloth for wipe only in one direction and wipe dry.
4. Apply Screenflex EVO2 to the pinchweld on top of the existing sealant in a triangular bead 9 - 17 mm high.
5. The windscreen or glass must be fitted securely in place as soon as possible within 10 minutes.
6. Remove any excess Screenflex EVO2 with a dry cloth prior to use. Use a wipe dipped in Acryclean to remove very excessive residues.

Use for assembling:

Screenflex EVO2 can be applied directly from the cartridge (manual or compressed air gun) as a rounding or triangular caterpillar in patrols. If a material side is diffusion-permeable, Screenflex EVO2 can be applied also dimensionally with a spatula. With many clean material surfaces a good liability also without primers is achieved. However, should be checked always, whether a strong media- and moisture-load influence on the cross-linked polymer and material. In this case and by near porous as well as difficult surfaces we recommend always the use of Primer MS-Prep for non-porous and Primer MS-Pro for porous surfaces.

Special Notes:

Cleaning tools or removing any excess Screenflex EVO2 can be done with a dry cloth prior to dry. Use a wipe dipped in Acryclean to remove very excessive residues.

Technical Data:

Basic material:	modified MS polymer (MSP)
Curing method:	moisture
Colour:	black
Densitiy:	approx.1.5 kg/dm³ (23°C)
Processing time:	approx. 10 min (23°C/50% rel. air hum.)
Curing speed:	≤ 3 mm/24h (23°C/50% rel. air hum.)
Shore A:	approx. 65 (DIN 53505)
Volume change:	≤ 3% (DIN EN ISO 10563)
Tensile strength:	3.0 MPa (ISO37 DIN 53504)
Elongation:	300-400% (ISO37 DIN 53504)
Elastic modulus at 100%:	1.8 (ISO37 DIN 53504)
Temperature resistance:	-40°C up to 120°C
Application temperature:	+5°C up to 35°C
Chemical resistance:	
Good:	against water
Moderate:	against oils, fat
Non resistant:	against aliphatic solvents, watered inorganic acids and alkalis, esters, ketone and aromatics, concentrated acids and chlorinated hydrocarbons

Storage:

If stored in dry and cool condition (5-25°C/41-77°F) in its closed original

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container at least 12 months from production.

Health & Safety: Read Material Safety Data Sheet before handling or using this product.

Important Notice: The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trails of the product, in an inconspicuous area or fabrication of a sample piece.

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