

Technical Data Sheet

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Properties:

AKEMI® Screenflex SK212 is an elastic adhesive based on newest technology for direct glazing applications. The special immediate fixing formula and the fast curing mechanism, combined with very good mechanical strength values, make the product suitable for use where conventional flexible 1-component adhesives do not provide sufficient immediate holding power and fast handling strength. With its innovative formulation properties Screenflex SK212 represents a viable alternative to reactive 2-component assembly adhesives. Screenflex SK212 has been tested as a windscreen adhesive according to FMVSS212 and Euro NCAP and is certified according to both standards for a drive away of 60 minutes. 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 fast hardening
- very high mechanical cohesiveness
- very good sealing properties
- paintable (also wet on wet)
- can be powder-coated and thermolacquered
- good resistance to water, salt water, aliphatic solvents, oils, fat, watered inorganic acids and alkalines
- non corrosive
- protects against corrosion
- shock-proof, anti-vibration (shock- absorbent)
- 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 afin™ 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 afin™ Multi Purpose Foam Cleaner to clean the new screen.

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6. Cleaning of the ceramic coated layer can be done with afin™ 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 SK212 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 SK212 with a dry cloth prior to use. Use a wipe dipped in afin™ Acryclean to remove very excessive residues.

Long Method:

1. When applying Screenflex SK212 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 afin™ Multi Purpose Foam Cleaner to clean the new screen.
3. Cleaning of the ceramic coated layer can be done with afin™ Acryclean 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 SK212 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 SK212 with a dry cloth prior to use. Use a wipe dipped in afin™ Acryclean to remove very excessive residues.

Use for assembling:

Screenflex SK212 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 SK212 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 SK212 can be done with a dry cloth prior to dry. Use a wipe dipped in afin™ Acryclean to remove very excessive residues.

Technical Data:

Basic material:	modified MS polymer (MSP)
Curing method:	air humidity
Colour:	black
Density:	approx. 1.35 +/- 0.05 g/cm ³
Processing time:	max. 15 min (20°C/50% rel. air hum.)
Curing speed:	approx. ≤ 3.5 mm/24h
Shore A:	approx. 55 (DIN 53505)
Volume change:	≤ 3% (DIN EN ISO 10563)
Tensile strength:	approx. 2.9 N/mm ² (DIN 53504 S2)
Elongation:	approx. 300% (DIN 53504 S2)
Elastic modulus at 100%:	approx. 1.7 N/mm ²
Temperature resistance:	-40°C up to 90°C +200°C (short time)
Application temperature:	+5°C up to 40°C

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Chemical resistance:

Good: against water, aliphatic solvents,
watered inorganic acids and alkalis
against oils, fat

Moderate: against esters, ketone and aromatics

Not resistant: against concentrated acids and
chlorinated hydrocarbons

Storage: If stored in dry and cool condition (5-25°C/41-77°F) in its closed original 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 trials of the product, in an inconspicuous area or fabrication of a sample piece.

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