

MS SCREEN / H / HL / HL 90



One component, neutral, moisture curing, high cohesive, structural adhesive-sealant based on MS Polymer™. **MS SCREEN** is expressly suitable for fast structural bonding and sealing of windscreens and windows in the vehicle production and reconditioning industry.

MS SCREEN has all the special characteristics of MS Polymer™ technology:

- Solventless and isocyanates free.
- Virtually no shrinkage.
- Flexible at low (- 40°C) and high (+ 120°C) temperatures
- Neutral reaction, odourless.
- Excellent resistance to ageing and UV rays.
- Rapid curing: bonding parts can be handled a few hours after assembly.
- Excellent primerless adhesion on windscreens and on a wide range of materials commonly used in vehicle body shops and shipyards, such as zinc coated sheets, aluminium, fiberglass, stainless steel.

The product is available in four grades with different technical characteristics: standard, **H**, **HL** and **HL 90**.

Typical uses

Automotive

For short drive-away time windscreen installation and replacement, **certified by Thatcham according to FMVSS212:**

MS SCREEN H crash tested at 45 minutes with two airbags (bonding strength 100%).

MS SCREEN HL crash tested at 60 minutes with two airbags (bonding strength 100%).



For windscreen and windows installation in the production of boats, rail and tram vehicles, caravans and camper vans, refrigerated vehicles, aircraft and aerospace components.

Building

Structural bonding between glasses and cementitious or metal frames in the production of greenhouses, coverings, canopies.

Properties

Base material :	MS Polymer
Consistency :	very high viscosity paste
Application temperature :	from +5°C +35°C

Availability

PRODUCT	CODE	COLOUR	PACKAGING	pcs./box
MS SCREEN	1004117	black	290 ml. cartridge	24
MS SCREEN	1004206	black	600 ml. sausage	20
MS SCREEN H	1004492	black	290 ml. cartridge	24
MS SCREEN H	1004480	black	600 ml. sausage	20
MS SCREEN HL	1004491	black	290 ml. cartridge	24
MS SCREEN HL	1004497	black	600 ml. sausage	20
MS SCREEN HL 90	1004554	black	290 ml. cartridge	24

25 Kg. drums available on request.



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Technical data

	MS SCREEN	MS SCREEN H	MS SCREEN HL	MS SCREEN HL 90
Specific gravity :	1,35 kg/dm ³	1,5 kg/dm ³	1,5 kg/dm ³	1,5 kg/dm ³
Shore A Hardness :	60-65	65	65	65
E-modulus (10%) :	-	6 MPa	5 MPa	5 MPa
100% Modulus (DIN 53504) :	1,7 MPa - 2 MPa	2,2 MPa	1,8 MPa	1,8 MPa
Maximum tensile strength (DIN 53504) :	3 - 3,5 MPa	3 MPa	3 MPa	3 MPa
Elongation at break (DIN 53504) :	350 - 450%	300%	400%	400%
Tear resistance (ASTM D624-73) :	16 - 18 N/mm	18 N/mm	20 N/mm	18 N/mm
Skin formation time (20°C 50% R.H.) :	6 min. approx.	6 min. approx.	15 min. approx.	35 min. approx.
Curing time (20°C 50% R.H.) :	3 mm. / 24 h.	3 mm. / 24 h.	3 mm. / 24 h.	3 mm. / 24 h.
Drive-away time (FMVSS212 - 2 AIRBAGS) :	-	45 min.	60 min.	-

Values given in this table must not be considered as specifications

Method of use

Surface preparation: MS SCREEN can be primerless applied onto ceramic coated glass, painted metals and onto cleaned and degreased unpainted metals. For a perfect cleaning of the bonding surfaces, see the following specific instructions.

- **Ceramic coated glass, coated metal sheet and aluminium:** it is necessary a preliminary cleaning with **E-CLEANER**. In case of special temperature range, humidity and working load conditions, it is recommended a cleaning treatment with **Primer WP**, using a proper buffer.
- **Ceramic coated/screen-printed glass:** it is required a preliminary cleaning with **E-CLEANER**.
- **Glass without ceramic coating:** it is necessary a preliminary treatment with **PRIMER G** or **GX**, at least 30 minutes before the sealant application, using a suitable felt pad.
- **GRP:** it is necessary a cleaning treatment with **ST121**. If required, apply a preliminary medium-fine sanding.

In case of windscreen replacement, completely remove the old adhesive before continuing the above explained surface preparation. If necessary, it is possible to trim back the remaining adhesive leaving a 1 mm. max. thick layer, without any further cleaning/treatment of the cut surface.

Sealant application: apply a bead of sealant either to the glass or to the aperture, then place the windscreen in its exact position within 10-15 minutes.

In case **MS SCREEN** is applied as joint filler, remove the exceeding product by spatula, spray the surface with plenty of **Z.TEX CLEANER** or soapy water and then smooth the sealant.

Notes

When using the product in cartridge, the **L / 6** pneumatic gun with telescopic piston or the **L / Power** electrical gun are recommended. Application of the product may be difficult with the use of manual or traditional guns.

Storage stability

12 months (290 ml. cartridge), 18 months (600 ml. sausage), 6 months (25 Kg. drum) for the product kept in the original sealed pack at a temperature range from + 5°C to + 25°C.



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