

MS SCREEN PRODUCTS

PRODUCT DESCRIPTION

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

PRODUCT CHARACTERISTICS

MS SCREEN PRODUCT RANGE 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, painted surfaces.

The product is available in three grades with different technical characteristics: **STANDARD, H, HL AND HL 90**.

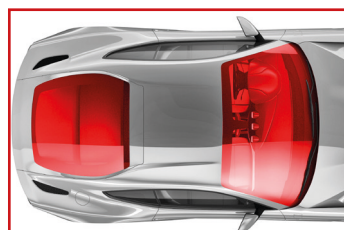
USES (professional)

AUTOMOTIVE

- For windscreen and windows installation in the production of boats, rail and tram vehicles, caravans and camper vans, refrigerated vehicles, aircraft and aerospace components.
- **MS SCREEN HL**: for short drive-away time windscreen installation and replacement, certified by **Thatcham** according to **FMVSS212** crash tested at 60 minutes with two airbags (bonding strength 100%).

BUILDING

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



LIMITATIONS

- Applications in water continuous immersion have to be double checked with Fratelli Zucchini S.p.A. Technical Area.
- Not suitable for joints in swimming pools and adjacent areas that are in continuous contact with pool water.
- It must not be used for items that come in contact with food, or with materials that ooze oily substances or plasticisers.
- Furthermore, it must not be applied in completely enclosed spaces, with no exposure to atmospheric humidity.
- Non specific for sealing on to marble and natural stone, previous compatibility tests are always recommended.
- Do not use in extreme temperature conditions, or on damp, frozen, contaminated surfaces.
- Do not use on excessively acidic or basic substrates. Not to be used in contact with natural copper.

DATI TECNICI

	MS SCREEN	MS SCREEN HL	MS SCREEN HL 90
Polymers and curing system:	MS Polymer, alcoxy		
Consistency:	Pasty		
Application temperature:	+5°C / +35°C		
Specific gravity:	1,4 kg/dm ³	1,5 kg/dm ³	1,5 kg/dm ³
Shore A Hardness:	55	65	65
E-modulus (10%):	-	5 MPa	5 MPa
100% Modulus (DIN 53504):	1 - 1,5 MPa	2 MPa	2 MPa
Maximum tensile strength (DIN 53504):	3 - 3,5 MPa	3 MPa	3 MPa
Elongation at break (DIN 53504):	300%	300%	300%
Tear resistance (ASTM D624-73):	18 - 20 N/mm	20 N/mm	18 N/mm
Skin formation time (20°C 50% R.H.):	7 min. approx.	15 min. approx.	35 min. approx.
Curing time (20°C 50% R.H.):	4 mm. / 24 h.	3 mm. / 24 h.	3 mm. / 24 h.
Drive-away time (FMVSS212 - 2 AIRBAGS):	60 minutes		

Values given in this table must not be considered as specifications.



MS SCREEN PRODUCTS

APPROVALS



MS SCREEN HL crash tested at 60 minutes with two airbags (bonding strength 100%), certified by Thatcham according to FMVSS212.

MS SCREEN HL 90 is in compliance with EN 45545-2:2013 table 5 R1 & R7 HL1-3 both as one part and in combination with MS BOOSTER*.

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** or **Primer 13**, 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 **ST/121**. 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.

* **Use with MS BOOSTER:** MS SCREEN products can be used in combination with **MS BOOSTER HL 90** for fast curing applications.

For a correct use of the accelerator see **MS BOOSTER HL 90** Technical Data Sheet.

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.

Cleaning: dirty tools can be solvent wiped with **Solvente ST/512**. After curing **MS SCREEN** can be removed only mechanically.

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.

SAFETY AND HEALTH

See Safety Data Sheet.

STORAGE STABILITY

MS SCREEN

- 290 ml. cartridge 18 months from the date of manufacture.
- 600 ml bag. 18 months from the date of manufacture.
- 25 kg drum 12 months from the date of manufacture.

MS SCREEN HL

- 290 ml. cartridge 12 months from the date of manufacture.
- 600 ml bag. 12 months from the date of manufacture.
- 25 kg drum 9 months from the date of manufacture.

MS SCREEN HL 90

- 290 ml. cartridge 12 months from the date of manufacture.
- 600 ml bag. 12 months from the date of manufacture.
- 25 kg drum 9 months from the date of manufacture.

Store the sealed product in the original packaging, in a dry place at a temperature between +5°C and +25°C.

The product may become more viscous during storage.



MS SCREEN PRODUCTS

PACKAGING

Code	Colour	Packaging	pcs./box	UdV.
MS SCREEN	1004117	black	290 ml. cartridge	24
MS SCREEN	1004206	black	600 ml. sausage	12
MS SCREEN HL	1004491	black	290 ml. cartridge	24
MS SCREEN HL	1004497	black	600 ml. sausage	12
MS SCREEN HL 90	1004554	black	290 ml. cartridge	24
MS SCREEN HL 90	1001042	black	600 ml. sausage	12

* Other sizes available on request.

