

MS TECHNO PRO / PRO SEAL / PRO LIGHT TX



Moisture curing one-part adhesive-sealant based on MS Polymer™, solventless, isocyanate free, suitable for high performance joints and elastic sealing. Excellent adhesion to many substrates without Primer, flexible in the long run.

High resistance to UV radiation and weather conditions, permanently elastic in the range -40° C/+100°C.

Non slumping, the application can be made along the vertical, almost no shrinkage. It can be painted soon after application.

Available in three grades different for both properties and method of uses :

- **TECHNO PRO SEAL** with high elongation, for joints subjected to continuous movement.
- **TECHNO PRO** assembling sealant for elastic, structural sealing, with a wide range of adhesions.
- **TECHNO PRO LIGHT TX** adhesive sealant transparent, clear in thickness.

Typical uses

TECHNO PRO SEAL

- For sealing means of transport as campers, boats, insulating vans and industrial bodies.
- For sealing metal sheets, drainpipes, high performance boards, insulating panels.
- For bonding wood and metal in door and window frames, front gates, skips.
- For sealing cement, concrete, plasterboard, walls, bricks, tiles, ceramic, glass, galvanized sheet, painted sheet, anodised and painted aluminium, uPVC, ABS, fiberglass, wood, polystyrene, polyurethane foam.

TECHNO PRO

- In bodywork for sealing and fixing panels and metal sheets.
- For sealing stiffening ribs on to structures subjected to vibrations, or with material with different thermal expansions
- For insulating and covering containers or vans.
- For bonding wood metal in door and window frames.
- For bonding overlaps between sheets or metals and other surfaces where mechanical fixing or welding is not allowed, in transport, metal carpentry.
- For bonding and sealing ventilation and conditioning ducts.
- For bonding metal profiles (U) onto glasses, plastic sheets, metal panels in refrigeration industry, refrigerators, furnishing, means of transport.
- For bonding wood panels and profiles even painted, plasterboard panels, plastic laminate, uPVC to walls, metal structures.
- For bonding overlap and butt joints between plates, profiles, frames.
- For assembling insulated panels, partition walls.
- For mirror installation.

TECHNO PRO LIGHT TX

- For sealing, in interiors, joints between metal, painted metals, glass, glazing surfaces, plastics. Not suitable for PE, PP, PTFE.
- For elastic bonding of glass, plastic (not including PE, PP, PTFE), ceramic, porcelain, metals painted metals, wood in furnishing, building, shipbuilding, means of transport.
- Excellent ageing resistance in interiors and very good UV rays resistance in external under indirect exposure.

Properties

Base material : MS Polymer

Consistency : paste

Application temperature : +5° +35°C

Availability

Product	Code	Colour	Packaging	pcs./box
MS TECHNO PRO SEAL	1004519	black	600 ml. foil pack	20
MS TECHNO PRO	1004495	grey	290 ml. cartridge	24
MS TECHNO PRO	1004496	white	290 ml. cartridge	24
MS TECHNO PRO	1004476	black	290 ml. cartridge	24
MS TECHNO PRO LIGHT TX	1004504	transparent	290 ml. cartridge	24

Other colour or packaging combinations and 25 kg. drum available on request.



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Technical data

	TECHNO PRO SEAL	TECHNO PRO	TECHNO PRO LIGHT TX
Specific gravity :	1,58 kg/dm ³	1,55 kg/dm ³	1,07 kg/dm ³
Shore-A Harness (DIN 53505) :	40	55	35
100% Modulus (DIN 53504) :	0,7 MPa	1,5 MPa	0,8 MPa
Tensile Strength (DIN 53504) :	1,7 MPa	3 MPa	2,5 MPa
Elongation at break :	700%	500%	250%
Tear resistance (ASTM D624-73) :	10 N/mm	20 N/mm	7 N/mm
Skin formation (20°C 50% R.H.) :	10 - 15 min.approx.	10 min.approx.	12 min.approx.
Curing speed (20°C 50% R.H.) :	2 - 3 mm. / 24 h.	3 - 4 mm. / 24 h.	3 mm. / 24 h.

The values in this table must not be considered as specifications

Method of use

Surface preparation: MS TECHNO PRO has an excellent primerless adhesion to degreased surfaces of steel, galvanised steel, anodized aluminium, to painted surfaces, to concrete, wood, glass, ceramics, GRP, uPVC. In particular conditions, i.e. humidity and porous surfaces, the adhesion can be improved by application of a suitable primer. More detailed informations about surface conditioning are available in the **selection chart of "Primers for MS Sealants and adhesives"**.

Application: used as adhesive MS TECHNO PRO can be applied by gun onto only one part. Join the parts together within 10'-15' exerting a light pressure. When compressed the thickness should be not lower of 1-2 mm. in order to allow the correct curing and to exploit the adhesive and cohesive characteristics of the product. On to big surfaces the adhesive can be applied in parallel lines distant 20-40 cm. and along the perimeter. Cure is realised by humidity, in presence of non porous surfaces it can accelerated by nebulizing the parts by water before assembling. Put the part in contact within 5 minutes by using an adequate pressure. If necessary, maintain under pressure the parts until a complete curing.

Used as a sealant the product is suitable for joints submitted to small movements only. Insert a non-adhesive back-up material in deep joints. Apply a continuous bead by using an adequate pressure and avoid air entrapping. Tool with a wet spatula.

Joint dimension: joint should have rectangular shape. The sealant cord depth should be at least 3mm., joint width should be twice joint depth and at least 4 times the total movement.

For a correct dimensioning of joint cross section, insert at the back our **Filtene**, a closed cell polyethylene foam round profile, available in several diameters.

Storage stability

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



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