



VABER INDUSTRIALE S.P.A.

PRODUZIONE ADESIVI E PRODOTTI CHIMICI INDUSTRIALI

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TECHNICAL DATA SHEET

VABER MULTISEAL

Date of release: July 12, 1993

Revision n°: 6 **date:** 14.03.2008

Approval: R&D

Verified: QMS

1. DESCRIPTION

VABER MULTISEAL is a high quality and colour stable , one component MS-Polymer sealant for construction joints, free form solvents, isocyanates and PVC.

VABER MULTISEAL is tough and elastic, it does not sag even when applied in thick layers and is especially designed for sealing joints in construction markets, road-rail-boat transportation industry.

Most recommended applications are: sealing of floor joints and low movement ($\pm 20\%$) wall joints, structural bonding in vibrating constructions, sheet metal joints, sealing and bonding in automotive (fenders, doors, bonnets, engine compartment, boot) and marine (boats, yachts, and sports craft) on gelcoat and fiberglass.

APPLICATION PROPERTIES:

- excellent adhesion, without primer on many different surfaces: metals and metal alloys, plastics (PS, PC, PMMA,PA,PVC,ABS,GRP) glass and porous materials
- odourless and ready for use
- paintable up to five days from application
- resistant to weather agents and some chemicals. Non yellowing.
- does not stain on porous surfaces such as natural stone, blue stone, granite, (on marble make small trial)

2. CHEMICAL AND PHYSICAL CHARACTERISTICS

BASE	: Ms polymer	
ASPECT	: thixotropic paste	
COLOUR	: white, black	
CURING SYSTEM	: moisture cure	
SKIN FORMATION (20°C / 65% R.H.)	: 7÷12 min	1*
CURING RATE (20°C / 65% R.H.)	: 2-3 mm/24 h	2*
HARDNESS	: 40 ±5 Shore A	3*
SPECIFIC GRAVITY	: 1,65 ± 0,05 g/cm ³	4*
TEMPERATURE RESISTANCE	: -40°C ÷ +90°C	
ELONGATION AT BREAK	: > 750%	5*
ELASTIC MODULUS 100%	: 0,75 N/mm ²	5*
TENSILE STRENGTH	: 1,80 N/mm ²	5*
LAP SHEAR STRENGTH	: 0,9 N/mm ²	6*
SUNSHINE WEATHERING TESTER	: passes 1920 hours without discoloration and cracks.	
ELASTIC RECOVERY	: >75%	
MAXIMUM TENSION/COMPRESSION:	± 20%	
CHEMICAL RESISTANCE:		
* good in	: - water, diluted inorganic acids and alkalis, mineral oils and grease.	
* poor in	: aromatic and aliphatic solvents, concentrated acids, chlorinated hydrocarbons	

1* VABER Method VABER T-33 (ref. ASTM D 1640-95 (appr.99))

2* VABER Method T-36

3* VABER Method T-11 (ref. ASTM D 2240-03)

4* VABER Method T-04 (ref. ASTM D 1475-98(appr2003))

5* according to DIN53504 after 7gg 20°C,65%r.h.

6* on AlMgSi1 2mm thickness, 10mm/min speed

7* Suga Test Instruments WEL-SUN-HC type: thickness 3mm; black panel temp. 63°C; watering 18min/120min

3. APPLICATION AND USE

SURFACES

Must be clean, free from dust, oils, processing aids and grease.

Preparation of porous surfaces : a proper primer may be applied

Preparation of non-porous surfaces : no pretreatment necessary

Bonding plastics like PMMA and PC in stress load applications can give rise to stress cracking and crazing in these substrates. The use of Multiseal is not recommended for such applications.

Multiseal has no adhesion on PE,PP and PTFE.

JOINT SIZE

WIDTH : 5 ÷ 30 mm; MINIMUM DEPTH : 5 mm

RECOMMENDATION : width of joint = 2 x depth of joint

APPLICATION

By manual or pneumatic caulking gun at +10°C ÷ +30°C

Clean with white spirit immediately after the use; smooth with soapy solution before skin forming. VABER MULTISEAL may be over painted, however due to the large spectrum of paints and varnishes we strongly suggest a compatibility test before application. When over painted with paints based on alkyd resins drying time of the paint may increase.

4. PACKAGING

VABER MULTISEAL is available in 290 ml cartridge, 12 pieces for box.

5. STORAGE AND SHELF LIFE

VABER MULTISEAL stored in its original package, in a well-ventilated place, under dry conditions, at temperature between +5°C and +25°C, has a shelf life of 12 months from the manufacturing date.

6. NOTICE

The above information and our technical indications (both verbal and written or resulting from testing), in particular those that regard the applications and uses of our products, correspond to our best knowledge and experience; however, they do not constitute our warranty relative to final results or our responsibility deriving from any juridical relationship whatsoever.

In fact, considering the multiplicity of materials, supports, handling and storage conditions, as well as the conditions of production and utilization, the user, in function of his specific circumstances of use, must always preventively verify all the information and instructions reported above.

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