# VABER INDUSTRIALE S.P.A.

**PRODUZIONE ADESIVI E PRODOTTI CHIMICI INDUSTRIALI**

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## TECHNICAL DATA SHEET

# VABER MULTIBOND

**Release date:** 04.09.1998
**Revision n°:** 5 **del:** 22.12.2009
**Approval:** R&D **Verified:** QMS

## 1. *DESCRIPTION*

VABER MULTIBOND is a one component MS Polymer based adhesive sealant with excellent mechanical and adhesive properties designed for the assembly of industrial construction elements and for sealing of concrete, metal and plastic joints where long lasting high mechanical properties are required.
Its characteristics are:
- Rapid and high green strength
- Permanently elastic and tough in short time
- Resists to thermal peaks ( max 30 min at 180°C)
- Odorless, solvent and isocyanate free
- Paintable after skin formation with most common paints
- Resists to mild chemical agents
- Excellent resistance to weathering agents, sun rays , will not turn to yellow

VABER MULTIBOND is used for**:**
- Sealing different materials in industrial carpentry and car after market
- Bonding of non weldable materials ( i.e. metal profiles)
- Bonding of metal reinforcements on metal surfaces
- Assembly of metal and synthetic or plastic materials

## 2. *CHEMICAL AND PHYSICAL CHARACTERISTICS*

| | | |
|---|---|---|
| BASE | : MS Polymer | |
| ASPECT | : thixotropic paste | |
| STANDARD COLOURS | : white, grey, black | |
| CURING SYSTEM | : moisture cure | |
| SKIN FORMATION (20°C, 50% r.h.) | : 10-15 min | 1* |
| OPEN TIME (20°C, 50% r.h.) | : < 15min | |
| CURING RATE (20°C, 50% r.h.) | : 3 mm/24 h | |
| HARDNESS SHORE A | : 55 | 2* |
| SPECIFIC GRAVITY | : 1,40 ± 0,04 g/cm$^3$ | 3* |
| SHRINKAGE (DIN 52451) | : < 3% | |
| TENSILE STRENGTH 100% (DIN53504/ISO37) | : >1,7MPa | |

| | | |
|---|---|---|
| TENSILE STRENGTH (DIN 53504/ISO 37) | : > 2.5 MPa | |
| ELONGATION AT BREAK(DIN 53504/ISO 37) | : 250% | |
| E-MODUL AT 10% (DIN 53504/ISO 37) | : 3,3MPa | |
| TEAR RESISTANCE(DIN 53515/ISO 34) | : 16N/mm | |
| LAP SHEAR STRENGTH | : 2,5 MPa | 4* |
| TEMPERATURE RESISTANCE | : -40°C ÷ +120°C | |
| TEMPERATURE RESISTANCE (30 min.) | : +180°C | |
| APPLICATION TEMPERATURE | : +5°C ÷ +35°C | |

1* VABER Method T-33 (REF. ASTM D1640)
2*VABER Method T-11 (ref. ASTM D 2240-91)
3* VABER Method T-03 (ref. ASTM D 792-91)
4* VABER Method T-09 (ref. ASTM D1002), alu/alu , 2mm, 50mm /min

## 3. *APPLICATIONS AND USE*

VABER MULTIBOND is applied by means of pneumatic gun or pump with follower plate . Apply the product on dry, dust and grease free substrates.
VABER MULTIBOND adheres without primer on stainless steel, EC and painted steel ( on powder paints apply Primer 1000), copper, galvanized aluminum, brass, polyester, glass, lacquered wood, rigid PVC.
For untreated metal, powder painted metals and aluminum, rough aluminum, PC, ABS and when the joint will be subjected to stress in high humidity environment, it is recommended to use VABER PRIMER 1000 .
Firmly rub the surface with a clean, colourless cloth, soaked in VABER PRIMER 1000.
For difficult to bond plastic or in special condition, consult VABER technical service.

## 4. *PACKAGING*

VABER MULTIBOND is available in:
- 290 ml cartridge, 600 ml sausage, 20 liters pails

## 5. *STORAGE AND SHELF LIFE*

VABER MULTIBOND stored in its original package, in a well-ventilated place, under dry conditions, at temperature between +5°C and +30°C, has a shelf life of 12 months from the manufacturing date.

## 6. *DISCLAIMER*

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.
No assertion contained in this publication is to be considered authorization or suggestion to violate any industrial property rights of third parties.