

# Monti & Barabino

Technical Supplies for  
Industrial and Naval field  
since 1880



**ADHESIVES  
AND SEALANTS**



**Monti & Barabino**, established in 1880, is based in Genoa and operates in the field of Technical Items supplies for the Industrial and Maritime Sectors.

The extremely wide experience matured in more than 135 years of activity and its highly qualified personnel composed by technicians, marine engineers, naval architects etc., enables the Company to offer the most complete and efficient technical and commercial assistance.

Moreover, the products stocked in its large warehouse allows it to promptly satisfy any kind of enquiry, while its workshop is able to manufacture all types of packings and gaskets comprising the moulding of rubber and elastomer of various types, including silicon, Fluoropolymer, Polyurethane, etc.

Since February 2004, Monti & Barabino S.p.A. improved its Quality Management System in accordance with **UNI EN ISO 9001** regulations, obtaining the certification through **R.I.N.A.** This prestigious acknowledgement is a confirmation of our constant effort in offering excellent quality and service to all those Customers who have chosen and will choose our Company as their supplier.



Our workshop, acting as  Official distributor, is able to offer:

- FLEXIBLE HOSES FOR LOW, MEDIUM AND VERY HIGH PRESSURE
- MED APPROVED FLEXIBLE HOSES
- TYPE APPROVED SHIP TO SHORE AND INDUSTRIAL COMPOSITE HOSES
- HIGH PRESSURE STEAM HOSES
- HIGH PRESSURE CLEANING HOSES
- RUBBER, STAINLESS STEEL AND TEXTILE EXPANSION JOINTS

Moreover:

- HYDRAULIC TEST FACILITIES
- MANAGEMENT OF TESTING PROCEDURES IN PRESENCE OF CLASSIFICATION BODIES
- PRESSED FITTINGS ON LARGE BORE RUBBER HOSES UP TO 10"

**MECHANICAL WORKSHOP** and **PIPE WORKSHOP** are available for the execution of customized processes on our semi-finished products. Thanks to the wide availability of **WAREHOUSE** we are able to satisfy your needs in a short time, organizing and managing your shipments in a very short time.

We perform CNC turning and cutting on rubber and metal semi-finished products; we mold details and rubber gaskets.



We produce gaskets in any material, even according to Customer's design, including padded copper and spiral wound gaskets.

We sew and assemble insulating mats and textile joints: wide choice of fabrics for high temperatures.



Laser marking of finished products and components

We are an authorized **Parker** assembling center, hydraulic hoses up to 3" and industrial hoses up to 10".  
Ask for our **FLEXIBLE HOSES** and **ACCESSORIES CATALOG**



Approved welders able to manufacture special fittings according to Customer's specifications.

We perform internal hydrostatic tests, also in the presence of an external Certifying Body.



## **ARALDITE® 2011 A/B** **(AW 106 Resin/Hardener HV 953)** **MULTI-PURPOSE EPOXY ADHESIVE**

### **Description:**

Araldite 2011 A/B epoxy adhesive is a multi-purpose, viscous material that is suitable for bonding a variety of materials, including metal, ceramic, and wood.

The electrically insulating adhesive is easy to apply either manually by spatula and stiff brush or mechanically with meter/mix and coating equipment. Araldite 2011 A/B epoxy adhesive cures at temperatures from 68°F (20°C) to 356°F (180°C) with no release of volatile constituents.



### **Applications:**

- Metal
- Ceramics
- Wood
- Vulcanized Rubber
- Foams
- Plastics

### **Advantages:**

- Long open time
- High shear and peel strength
- Easy to apply
- Good resistance to static and dynamic loads
- Electrically insulating



<b>TYPICAL PROPERTIES:</b>		<b>Test Values <sup>(1)</sup></b>		
Property	Test Method	Resin	Hardener	
Color/appearance	Visual	Creamy, viscous/liquid	Amber Liquid	
Specific Gravity	ASTM D-792	1.17	0.92	
Viscosity (cP) @ 77°F (25°C)	ASTM D-2393	50,000	35,000	

<b>TYPICAL MIXED PROPERTIES:</b>			
Property	Test Method	Test Values <sup>(1)</sup>	
Reaction Ratio (by weight)		100R/80H	
Reaction Ratio (by volume)		100R/100H	
Pot Life, hours @ 77°F (25°C) (4. fl. oz. mass)	ASTM D-2471	2	
Mixed viscosity (cP) @ 77°F (25°C)	ASTM D-2393	45,000	

<sup>1</sup>Tested @ 77°F (25°C)

<b>RECOMMENDED CURE SCHEDULES:</b>			
Temperature	Handling Strength	Minimum Cure Time	
68°F (20°C)	12 hours	15 hours	
77° (25°C)	7 hours	12 hours	
104°F (40°C)	2 hours	3 hours	
158°F (70°C)	30 minutes	50 minutes	
212°F (100°C)	6 minutes	10 minutes	
302°F (150°C)	4 minutes	5 minutes	

<b>TYPICAL CURED PROPERTIES:</b>	
<p><b>Application of Adhesive</b> The resin/hardener mix is applied with a spatula to the pretreated and dry joint surfaces.</p> <p>A layer of adhesive 0.002 to 0.004-inches (0.05 to 0.10-mm) thick will normally impart the greatest lap shear strength to a joint.</p> <p>The joint components should be assembled and clamped as soon as the adhesive has been applied. Even contact throughout suffices to ensure proper cure.</p> <p><b>Standard Test Specimens</b> Unless otherwise stated, the figures given below were all determined by testing standard specimens made up by lap-jointing 4-inch x 1-inch x 0.06-inch (10-cm x 2.5-cm x 1.5-mm) strips of aluminum. The joint area was 0.5 x 1 inch (12.5 mm x 2.5 cm) in each case.</p>	

## CAF 1

One component self-leveling silicone sealant, acetic, that cures at room temperature.

It guarantees a perfect assembly and a complete seal in the presence of materials subject to high temperatures.



### **Applications:**

Easy to apply, it is used on glass, enamel, paint, metal and polyester. Essential for sealing O-ring silicone gaskets.

### **Properties:**

Aspect	Fluid, red paste	
<b>Working temperature</b>		
- max.	°C	+300
- min.	°C	-65
<b>Hardness</b>	Sh A	48
<b>Elongation at break</b>	%	220
<b>Solid content</b>	%	86
<b>Curing time:</b>		
- Film layer @ 23°C humidity	50%	7 min
- Setting time tk 2 mm @ 23°C humidity	50%	5 ore
<b>Specific Gravity</b>	1,12	
<b>Odour</b>	Acetic	

### **Commercial sizes:**

Tube 100 gr..... cod. 6523.0010

Bottle 1 lt..... cod. 6523.0015

## CAF 4

One component self-leveling silicone sealant, acetic, that cures at room temperature.

It guarantees a perfect assembly and a complete seal in the presence of materials subject to high temperatures.



### Applications:

Easy to apply, it is used on glass, enamel, paint, metal and polyester.

Essential for sealing O-ring silicone gaskets.

### Properties:

<b>Aspect</b>	Viscous, off-white paste	
<b>Working temperature</b>		
- max.	°C	+250
- min.	°C	-65
<b>Hardness</b>	Sh A	36
<b>Elongation at break</b>	%	300
<b>Solid content</b>	%	86
<b>Curing time:</b>		
- Film layer @ 23°C humidity	50%	11 min
- Setting time tk 2 mm @ 23°C humidity 50%	50%	5 ore
<b>Specific Gravity</b>	1,12	
<b>Odour</b>	Acetic	

### Commercial sizes:

Tube 100 gr..... cod. 6523.0004

Bottle 1 lt..... cod. 6523.0014

**COPALTITE®  
HIGH TEMPERATURE & PRESSURE SEALANT****Description**

Heat-resistant compound used for sealing threads, flanges, and other fittings where very high temperatures and pressures are involved.

**Applications**

Turbines, heat exchangers, compressors, condensers, etc, in the presence of water, steam, oil, hydrocarbons, ammonia, hydraulic fluids, Freon, non-aggressive acids and alkalis. Characterized by good adhesion to rubber, metals, ceramics, glass and to most of the plastic materials

In compliance with **MIL-S-15204D**

**Features**

<b>Working Temperature</b>		
- max.	°C	815
- min.	°C	-192
<b>Viscosity</b>	cps	10,000
<b>Coefficient of expansion</b>	x10 <sup>-6</sup>	50
<b>Solid Content</b>	%	86
<b>Curing time after heating</b>		
@ > 150°C	min.	15
@ < 150°C	h.	4
<b>Color</b>	black	

**Commercial size**

Tube 140 gr..... cod. 6523.7000



**PERMATEX®  
GASKET SEALANT**

Available in three different versions for a quick and effective solution of sealing problems.



**Features**

Type	Cod	Issa	Generality	Applications
1 - HARD	6523.3521	812611	Hard fast curing paste, perfect for hard and/or permanent assembly. It seals and repairs a wide range of gaskets, it fills irregular flanges surfaces and seals pipe fittings and threaded assemblies.	Working temperature from 55 °C to 204 °C, pressure up to 350 kg/cm, reddish brown color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant. Can be applied from the tube or using a spatula
2 - SOFT	6523.3522	812612	Soft slow curing paste. It's suitable to assembly parts where a flexible setting is required. It seals flanges, fittings, thread connections. It also improves the performance of existing gaskets	Working temperature from 55 °C to 204 °C, black color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant. Can be applied from the tube or using a spatula
3 - FLUID	6523.3523	812613	Slow curing liquid which forms a flexible skin. It's suitable to ensure the sealing of strong assembly. It's used for head gaskets and for the assembly of worked surfaces, threaded connections, hydraulic pumps.	Working temperature from 55 °C to 204 °C, reddish brown color. Water, petrol, oils, lubricants and aliphatic hydrocarbons resistant. Can be applied with roll or brush.



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