

**BLUESIL™****PRIM PM 811 A & B – PRIM PM 812 A & B**

## Polyaddition Primers for Silicone Adhesion

Technical Data Sheet n° SIL 18 039 3 – June 2018  
Cancels and replaces SIL 11 557 3

**Description** **BLUESIL PRIM PM 811 A&B** and **BLUESIL PRIM PM 812 A&B** are two component bonding agents to improve the adhesion of silicones to various substrates in combination with BLUESIL PRIM PM 820 (UVT).  
The primers are supplied as low viscous solutions of the active ingredients.

**Examples of applications** Adhering Pt catalysed silicones onto various substrates such as:

- Aluminium and other metals
- Reinforced epoxy resins, polyurethane and other polymers

**Key benefits**

- Quick processing due to high volatility
- Highest performance adhesion in combination with BLUESIL PRIM PM 820 (UVT).

**Typical properties**

<i>Properties</i>	<b>BLUESIL PRIM PM 811</b>		<b>BLUESIL PRIM PM 812</b>	
	<b>A</b>	<b>B</b>	<b>A</b>	<b>B</b>
<b>Contains</b>	<b>Pt catalyst</b>	<b>SiH crosslinker</b>	<b>Pt catalyst</b>	<b>SiH crosslinker</b>
<b>Appearance</b>	Low viscous liquid	Low viscous liquid	Low viscous liquid	Low viscous liquid
<b>Colour</b>	Translucent	Transparent	Translucent	Transparent
<b>Density</b> [g/cm <sup>3</sup> ] at 23 °C, approx.	0.77	0.68	0.77	0.71
<b>Viscosity</b> [mPa·s] at 23 °C, approx.	1	1	1	1
<b>Mixing Ratio A : B</b> parts by weight	10 : 1		10 : 1	
<b>Pot life</b> [mPa·s] at 23 °C, approx.	> 3 days		> 3 hours	
<b>Non-volatile content</b> [wt.-%], approx.	25	8	25	12
<b>Boiling point</b> [°C], approx.	100	60	100	100
<b>Solvent</b>	Aliphatic hydrocarbon			

**Please note:** The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

# BLUESIL™ PRIM PM 811 A & B – PRIM PM 812 A & B

## Instructions of use

### 1. Working conditions

**Primers are highly flammable liquids! Ensure to work in a well-ventilated work space free of any source of ignition.**

The working temperature should range between 5°C and 30 °C. Higher temperatures will cause a very fast evaporation and thus lead to irregular layers of the primer.

In order to avoid premature reaction of the primer it is recommended to fill only small amounts into a small beaker and re-seal the bottle immediately.

### 2. Preparation of the substrate

The substrate must be clean, dry and free from grease. It is recommended to clean the surface with acetone. Roughening or structuring the surface will improve the adhesion.

### 3. Application of primers

All primer components have to be stirred thoroughly before using.

The primers should be applied as a very thin film using a soft brush or a lint-free cloth. A coat weight of 30 – 60 g/m<sup>2</sup> is recommended depending on the roughness and absorbency of the ground.

In a first step a thin coating of BLUESIL PRIM PM 820 (UVT) has to be applied by brushing or spraying. The film should dry for about 30 min at 23°C.

The components of **BLUESIL PRIM PM 811** and **BLUESIL PRIM PM 812** are mixed in a ratio of A : B = 10 : 1.

A thin coating of the mixture is brushed on the surface. The film should dry again for at least 30 min at 23 °C.

### 4. Application of the adherent

Apply the silicone elastomer mixture soon after the primer treatment and vulcanise it as recommended in the respective Technical Data Sheets.

## Packaging

**BLUESIL PRIM PM 811 A** and **BLUESIL PRIM PM 812 A** are delivered in bottles of 0.60 kg (1 L).

**BLUESIL PRIM PM 811 B** and **BLUESIL PRIM PM 812 B** are delivered in bottles of 0.06 kg (0.1 L).

## Storage and shelf life

When stored in their original packaging at a temperature -10°C and +30°C, **BLUESIL PRIM PM 811 A&B** and **BLUESIL PRIM PM 812 A&B** may be stored for up to 12 months from their date of manufacture.

Comply with the storage instructions and expiry date marked on the packaging.

Beyond this date, Elkem Silicones no longer guarantees that the products meet the sales specifications.

## Safety

Please consult the Safety Data Sheet of **BLUESIL PRIM PM 811 A&B** and **BLUESIL PRIM PM 812 A&B**.

# BLUESIL™ PRIM PM 811 A & B – PRIM PM 812 A & B

Visit our website [www.silicones.elkem.com](http://www.silicones.elkem.com)

 **EUROPE**

*Elkem Silicones France*  
 21 Avenue Georges Pompidou  
 F69486 Lyon Cedex 03  
 FRANCE  
 Tel. (33) 4 72 13 19 00  
 Fax (33) 4 72 13 19 88

 **NORTH AMERICA**

*Elkem Silicones USA*  
 2 Tower Center Boulevard  
 Suite 1601  
 East Brunswick, NJ 08816-1100  
 United States  
 Tel. (1) 732 227-2060  
 Fax. (1) 732 249-7000

 **LATIN AMERICA**

*Elkem Silicones Brazil Ltda.*  
 Av. Duquesa de Goiás, 716  
 2º andar  
 05680-002 Sao Paulo  
 Brazil  
 Tel. (55) 11 4380-6900

 **ASIA PACIFIC**

*Elkem Silicones (Shanghai)*  
 Co. Ltd.  
 3966, Jindu Road, Xinzhuang  
 Industrial Zone, Shanghai  
 Tel. (86) 21 5442 6600  
 Fax (86) 21 5442 3733

**Warning to the users**

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ELKEM SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and ELKEM SILICONES is at their disposal to supply any additional information.