

## **DELO®-METALIX S**

### **Base**

- polyester resin trowelling compound
- two-component

### **Use**

- multi-purpose
- trowelling compound for repair and maintenance
- repair of breakages and cracks in castings
- removal of leakages in pipe lines and containers
- repair of cavitation damage and elutriations
- repair of cracked motor blocks and other machine elements
- filling of cavities
- filling of chipped machine bases
- smoothing and sealing of welded seams
- manufacturing of wear-resistant surfaces (also precautionary abrasion protection)
- all types of repair, especially where welding is not possible
- the product is normally used in a temperature range of -40 °C to +180 °C; depending on the application, other limits may be more reasonable

### **Processing**

- resin (liquid) and hardener (powder) must be stirred before use and then mixed or homogenized well
- optimal mixing ratio of resin and hardener: see technical data
- the mixing ratio can be varied to adjust the flow behavior according to the application; however, this can change the technical properties specified
- the mixture should contain a hardener share of at least 30 % of the total volume
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use DELOTHEN cleaners for the cleaning of bonding surfaces

### **Curing**

- at room temperature
- increased temperatures accelerate curing

### **Technical data**

Color	gray
Filler	steel

<b>Mixing ratio</b> (A: B) resin : hardener by weight	4 : 10	
<b>Density [g/cm<sup>3</sup>]</b> mixture at room temperature (ca. 23 °C)	5.9	
<b>Viscosity of component A [mPas]</b> Brookfield at 23 °C	10000	10000 cP
<b>Viscosity of mixture</b> Brookfield at 23 °C	adjustable	
<b>Pot life in 100 g preparation [min]</b> DIN EN 14022, at 23 °C	10	
<b>Maximal reaction temperature [°C]</b> in 100 g preparation	105	221 °F
<b>Curing time until final strength [h]</b> at room temperature (approx. 23 °C)	1.5	
<b>Tensile shear strength Al/Al [MPa]</b> DIN EN 1465, sand-blasted component thickness: 1.6 mm after 24 h at room temperature (ca. 23 °C)	14	2030 psi
<b>Compression strength [MPa]</b> DIN 53454	70	10.15 ksi
<b>Tensile strength [MPa]</b> DIN EN ISO 527	24	3480 psi
<b>Elongation at tear [%]</b> DIN EN ISO 527	0.4	
<b>Young's modulus [MPa]</b> DIN EN ISO 527	4100	594.5 ksi
<b>Shrinkage [vol. %]</b> DELO Standard 13	5 - 7	
<b>Storage life at room temperature (max. 25 °C)</b> in unopened original container	12 months	

## **Instructions and advice**

### **General**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this.

Many product properties are subject to temperature and may change permanently, especially at high temperatures.

It is the user's responsibility to test the suitability of the product for the intended purpose and temperature range of use by considering all specific requirements. Type and physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions.

The data and information provided are, therefore, no guarantee for specific product properties or the suitability of the product for a specific purpose.

### **Instructions for use**

The instructions for use of DELO-METALIX are available on: [www.DELO.de](http://www.DELO.de). We will be pleased to send them to you on demand.

### **Occupational health and safety**

see material safety data sheet

### **Specification**

see quality assurance test report

### **Converting table**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{mm} / 25.4 = \text{inches}$

$\mu\text{m} / 25.4 = \text{mil}$

$\text{g} / 28.3495 = \text{oz.}$

$\text{Mpa} \times 145 = \text{psi}$

$\text{mPas} = \text{cP}$

$\text{N} \times 0.225 = \text{lb.}$