

## ***BINDER BESIL***

***binder for sand-mixes in foundries and steel industry***

### **Application:**

Binder Besil is designed for preparing universal sand-mixes and cores in foundries and steel industry, in which the basic component is quartz matrix ( 90 – 97 weight-per cent).

### **Characteristic:**

Thick liquid with yellow-brown color.

### **Usage:**

Product is one of the very popular modified inorganic binders. It could be hardened thermally in temp. 159 – 240°C or chemically in ambient temperature. The very common chemical hardening agent is carbonic acid anhydride CO<sub>2</sub>. They are known also loose inorganic hardening agents e.g.  $\gamma$ -calcium silicate, ferrosilicon or liquid organic hardening agents ester type, such as “flodur”. Depending on kind of such preparation hardening time takes from a few to a dozen or so minutes. A typical self-hardening mass consolidated in ambient temperature for 100 parts by weight of quartz sand contains 3,5 – 4,0 parts by weight of Binder and 10 – 15 % of “flodur” in the ratio of Binder.

### **Regulatory information:**

High alkaline product. Strong irritation effect both sprayed and solution.  
Use protective gloves and goggles.  
Irritated eyes flush with plenty of water at least 15 min.  
Non-combustible, not feed the burning.

### **Packaging:**

Plastic or steel containers.

### **Storage:**

Tightly closed containers in temperature 0 – 40°C.

### **Transportation:**

Covered means of railway and road transportation. This product is not regulated hazardous material for transportation according to RID & ADR rules. Certificate no. 072/IPO/2003.

**UN Number:** None

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