



# LITHOPIX AS 85

## Chemical binder for vibrating castables

### Chemical basis

Phosphate-silicate preparation

### Characteristics

Appearance	pale grey powder
Bulk density	approx. 600 g/l
pH (1 %)	approx. 11
SiO <sub>2</sub> content:	approx. 56 %
Al <sub>2</sub> O <sub>3</sub> content	approx. 25 %
K <sub>2</sub> O content	approx. 10 %
P <sub>2</sub> O <sub>5</sub> content	approx. 8 %

### Shelf-life / Packaging

6 months when stored properly and dry | bags of 25 kg

### Application

LITHOPIX AS 85 is a chemical binder that is used for refractory vibration mixes. The mixes so produced are vibrated with 4 - 6 % make-up water and dried at ca. 120 °C after setting. There is no loss of strength between 500 and 1000 °C, such as that which occurs with hydraulically bonded mixes.

Temperature is of great importance as with all chemical reactions. The setting reaction is slow at low temperatures. It can be accelerated by raising the temperature. At 20 °C the setting time is approx. 2 to 4 hours depending on raw material and amount added. The mixes must be absolutely dry until they are processed.

They should not contain any clay, since this interferes with the flow properties of the mix.

LITHOPIX AS 85 cannot be used in porous raw materials.

The amount to be added is 5 to 10 % of the total mix.

### Note

LITHOPIX AS 85 must be stored dry, since even atmospheric moisture brings about a chemical reaction. Hence, it should not be stored for more than 6 months.

This applies particularly to mixes that are processed in countries with extreme climatic conditions.

The above results have been obtained from trials in our laboratory and plant.  
In the light of changing conditions they can serve only as a guide and are therefore offered without obligation.  
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