

**The Appropriate Solution for any Application...**

## **Comprehensive Program of KALFIX Proven Setting Materials**



Various setting materials and/or mechanical fastenings are used for installing Kalenborn wear protection materials. The selection of the optimal setting material depends on different factors, such as: type of subsurface (steel or concrete), application temperature, chemical composition of the material to be handled, type of wear protection material and many more.

### **Thick-layer setting materials KALFIX:**

Cement based mortars using Portland cement, fused alumina cement or cement of increased sulfate resistance.

Potassium silicate based mortars such as KALFIX-HB 900.

### **Thin-layer setting materials KALFIX:**

Synthetic resins utilizing epoxy resin, phenolic resin, furan resin or silicone.

### **Mechanical fixing systems:**

In addition to adhesive attachment, numerous mechanical fixing systems are used. These include: tiles with countersunk hole for weld bolts, steel corner inserts and weld-straps, grooved fixings, etc.

**We recommend contact with Kalenborn employees for technical advice on any of the following applications:**

- vertical surfaces
- overhanging surfaces
- vibration
- mechanical stress
- temperatures above 100 °C / 212 °F
- mechanical fastening systems
- acid attack

**The Most Appropriate Setting Material for the Specific Application:**

**KALFIX from Kalenborn includes Cement Mortar,  
Potassium Silicate based Mortars and Synthetic Resins:**

Type	Application	Layer thickness (mm)	Joint width (mm)	Max. temp. (°C/°F)
KALFIX-PM	Special portland cement mortar, standard setting material for all mineral and ceramic wear protection materials, ready-to-use mixture	10...30	3...6	150/302
KALFIX-FM	Joint mortar, higher wear resistance suitable for joints, reinforced by plastics	–	2...5	80/176
KALFIX-EA	Epoxy compound, special setting compound for all mineral and ceramic wear protection materials	1,5...2	1...2	80/176
KALFIX-EB	Epoxy compound, special setting material, in particular for KALOCER high alumina ceramics and laying on high-grade steel surfaces	1,5...2	1...2	150/302
KALFIX-EC	Epoxy compound, special setting material, in particular for KALOCER high alumina ceramics at temperatures up to 200 °C	1,5...2	1...2	200/392
KALFIX-TM 500	Fused alumina cement mortar, setting material for all ceramic wear protection materials at high temperatures up to 500 °C, short setting time	8...30	–	500/932
KALFIX-TM 1200	Fused alumina cement mortar, setting material for all ceramic wear protection materials at very high temperatures up to 1,200 °C, short setting time	8...30	3...6	1,200/2,192
KALFIX-HB 900	Potassium silicate based mortar, setting material for all ceramic wear protection materials at high temperatures up to 900 °C, high bond strength	5...20	2...5	900/1,652
KALFIX-HB 1400	Potassium silicate based mortar, special setting material for all ceramic wear protection materials up to 1,400 °C, high bond strength, glueing of e.g. stoppers	≤ 2	≤ 2	1,400/2,552
KALFIX-SK	Special acid mortars, various acid resistant setting materials – they should only be used after consultation with Kalenborn's engineering services	5...20	2...5	180/356

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**The Wear Protection People**