

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. For details please ask for a copy of our special leaflet.

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
- 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)
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
KALFIX-FM	Joint mortar, higher wear resistance suitable for joints, reinforced by plastics	–	2...5	80
KALFIX-EA	Epoxy compound, special setting compound for all mineral and ceramic wear protection materials	1,5...2	1...2	80
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
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
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
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	1200
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
KALFIX-HB 1400	Potassium silicate based mortar, special setting material for all ceramic wear protection materials up to 1400°C, high bond strength, glueing of e.g. stoppers	≤ 2	≤ 2	1400
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

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