



M60 PAINTING/CLEAR FINISHING

110 MASONRY REPAIR/ PAINT:

KEIM CONCRETE REPAIR SYSTEM

A mineral based, long lasting concrete repair system.

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REFERENCE: KEIM CONCRETE REPAIR SYSTEM

Preparation & Application:

All loose and spalling concrete and material should be hacked off back to a sound base; all steel elements should be brushed with a wire brush to achieve a bright finish. The steel elements should then be treated with two coats of Keim Concretal-MKH, brush applied with a minimum period of 3 hours between coats.

KEIM Concretal-MKH

Keim Concretal-MKH should be sprinkled into the required amount of water with constant stirring and mixed to a homogenous, lump-free mixture until a readily brushable consistency is obtained. The duration for mixing should be a minimum of 5 minutes using slow-running stirrers/mixers. For 20kg of Keim Concretal-MKH between 3.6 and 3.8 litres of water is required.

Keim Concretal-MKH should be applied onto the prepared bright steel reinforcement using suitable paintbrushes in two coats. Each coat must be applied all round, covering the entire surface. Care must be taken to ensure that tie wires, edges etc are carefully coated in order to achieve the necessary application rate. The first coating should be applied immediately after de-rusting. The second coat should be applied after a minimum period of 3 hours.

KEIM Concretal Repair Mortar

After a further minimum period of 3 hours, Keim Concrete Repair Mortar, mixed with clean cold water to a slurry should be thoroughly brushed around all areas that have been affected to form a good key. Keim Concrete Repair Mortar should then be mixed again with clean cold water to a moist earth consistency and trowelled onto pre-wetted areas to a thickness of between 0.5 - 10 cm and allowed to dry.

Keim Fine Finishing Mortar

A final layer of Keim Fine Finishing Mortar, again mixed with clean cold water to a moist earth consistency, should be applied by trowel; this will form a skim layer which will give a level surface to ensure that there is an adequate key.

Finishing:

All repairs should be left for a minimum period of 15 days prior to any decoration taking place. Once all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using the preferred Keim Concretal paint system may proceed.



IMPORTANT INFORMATION REGARDING STANDARD KEIM SPECIFICATIONS

We have taken every care to ensure that specifications are accurate, if there is any doubt about how to deal with a specific problem or the most suitable products to use, please contact us.

Specifications downloaded from the Keim Mineral Paints website are standard specifications to cover general circumstances and may not be suitable for every situation. Dedicated project specific specifications and product advice can be obtained by contacting sales@keimpaints.co.uk or 01952 231250.

It is essential that each stage of the specification is complied with, including level of preparation and drying times between coats, to ensure the best performance from the system applied. All products should be applied in accordance with the specification and relevant datasheets.

General points to be borne in mind when using Keim Mineral Paints are:-

In order for Keim Mineral paint to achieve its permanent bond with the surface it is essential that the following recommendations are followed.

Pre-treatment –

- all areas to be decorated should be free from all surface contaminants, sound, dry and dust free
- all loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in
- ensure that any paint materials left remaining and the underlying substrate is sound and adhering well
- caution should be taken with the removal of any pre 1960's coatings as they may contain lead
- any gloss or shiny surfaces should be thoroughly flatted down using sand or emery paper to create a good key
- if the surfaces are being chemically stripped ensure that they are thoroughly washed down of all residue prior to decoration. Due to the potential for an osmotic drawing reaction, which can bring contaminants to the surface, we do not recommend the use of poultice based strippers if the surfaces are to be redecorated
- any powdery or chalking surfaces will require treatment prior to decoration – contact Keim to ascertain the appropriate product
- use only Keim recommended fillers and sealers. Acrylic, resin and gypsum based fillers particularly are not recommended for use with mineral paints

Material Application –

- always maintain a wet edge and work materials out well
- all materials must be thoroughly mixed beforehand, and periodically during decoration, using a mechanical mixer. We do not recommend intermixing packs, however if this is necessary ensure that products are thoroughly mixed beforehand to ensure even pigment dispersion, prior to mixing
- materials **must not** be applied at temperatures below 5°C nor those in excess of 30°C
- materials **must not** be applied if it is raining or if there is an immediate likelihood of rain
- Keim Mineral Paints should be applied onto wind dry surfaces where the moisture content on or near the surface (to a depth of 5mm approximately) should be no greater than 18% by volume. For on-site purposes a moisture meter may be used to give a qualitative reading – if the reading is in the green zone decoration may proceed



- on newly rendered surfaces we would suggest that a period of at least 15 days (30 days for lime render) is allowed following rendering, prior to the application of Keim paints
- mineral paints are manufactured using natural components and as such can appear to dry out unevenly. This is the way in which they dry, once fully dried any unevenness will disappear. Do not over-roll or touch up the paint during the drying process as this may inadvertently create patching once dry
- mineral paints will lighten as they dry, with a corresponding increase in opacity
- if airless spraying, please contact Keim for details of the appropriate nozzle sizes and optimum mesh and filter types

Housekeeping –

- all adjoining surfaces must be protected during decoration, any splashes/unwanted paint removed immediately, before it is able to completely dry and bond to the surface
- any splashes or spillage should be removed immediately using water - particular note needs to be taken of this in respect of Keim on glass, as it has a slight etching effect if allowed to dry hard
- clean all brushes and tools immediately in water (some ancillary products containing solvents may require white spirit or turpentine, if in doubt please consult the relevant product technical data sheet)
- always store materials upright and secure. Protect from extremes of temperature and store in frost-free conditions

General –

- when ordering reference to the project should be made, to ensure that in the event of re-ordering a colour match can be supplied
- to avoid confusion, the recommendations within this specification should be followed where there are any minor differences between this document and the standard advice on packaging and technical data sheets
- Keim Mineral Paints Ltd operates a policy of 'sale and no return' on all goods supplied in good faith