



M60 PAINTING/CLEAR FINISHING

110 MASONRY REPAIR/ PAINT: STONE SURFACES

KEIM STONE REPAIR SYSTEM

Repair mortars consisting of hydraulic binders, mineral, inorganic fillers and earth oxide colour pigments.

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REFERENCE: KEIM STONE REPAIR SYSTEM

Preparation:

Any unsound stone should be cut back to a sound base. Ensure that materials left remaining and the underlying substrate is sound and adhering well.

Keim Algicide

A non-acid fungicide wash.

Any algae growth should be wire brushed to remove all growths and treated with Keim Algicide, brush applied undiluted and allowed to remain undisturbed for some 3 hours before thoroughly washing off.

Keim Silex OH

Ethyl silicate stone consolidant system.

Keim Silex OH should be flood coated over all friable areas using a brush or low pressure spray until the substrate can absorb no further material, excess material should then be blotted off using clean, dry, lint free cloths. Keep materials free from ignition sparks and sources, do not smoke. Do not inhale spray dust and ensure adequate ventilation.

When all surfaces are clean, sound, dry, dust free and free from all surface contaminants, repair using the Keim Restauro Repair system may proceed.

Repair System:

Keim Restauro Grund

A pre-mixed, dry bagged mineral ground restoration mortar (grey colour only).

Keim Restauro Grund should be used where the depth is in excess of 10-15 mm. Keim Restauro Grund should be mixed with clean cold water to a moist earth consistency and should be applied to the level of approximately 5mm below the finished surface.

Keim Restauro Top

A pre-mixed, dry bagged mineral finishing restoration mortar (available in a range of lightfast stone shades).

Keim Restauro Top should be mixed with clean cold water to a moist earth consistency and should be applied proud of the surface using a trowel, allowed to harden and then dressed back in a manner to suit the surrounding stonework. If necessary stainless steel reinforcements, screws and wires can be used to hold repair materials in place until the mortar is dry.

Finishing:

All newly repaired areas must be allowed to dry out for a minimum period of 15 days. We would then recommend that surfaces are decorated or treated using a Keim Mineral Paint system or Keim Lotexan.



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