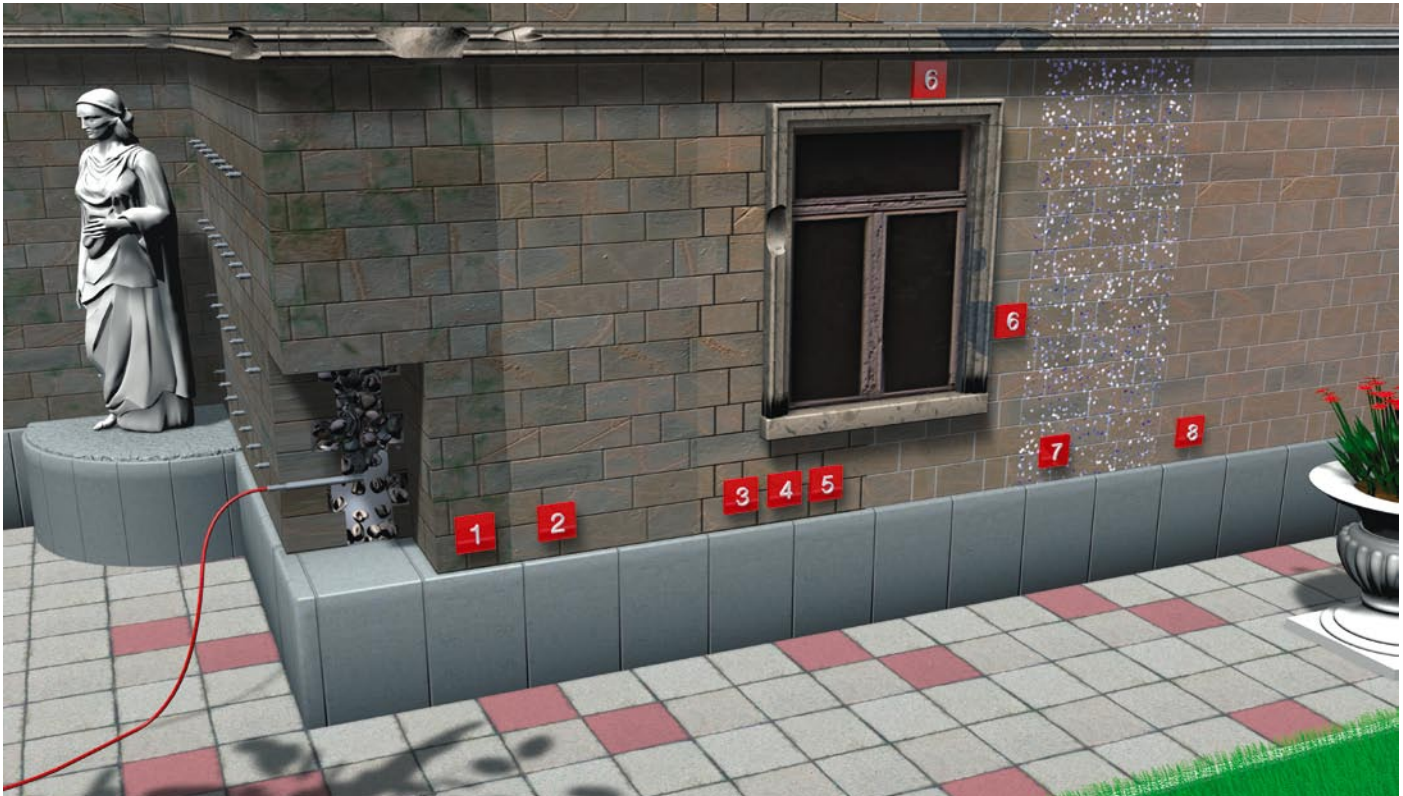


Issue date: 11/07

Natural Stone Facade Cleaning and Restoration



Outline Remmers System Specification

Cleaning and Salt Removal

- Clean the surface to remove all built up dirt, deposits and organic growth following tests in trial areas to determine the most suitable combination of cleaning products and equipment such as the Rotec System.
- Where they are present remove any excess salts using Remmers Salt Removal Compress which must remain in place for approximately three weeks.

Masonry Stabilising

- If necessary consolidate and stabilize the stone masonry with the appropriate Remmers grouting system. Fill and seal the voids by grouting with the appropriate Remmers Grouting Mortar.

Hygic Swelling Reduction

- If the stone has a significant clay particle content and is therefore susceptible to hygic swelling, apply Remmers Antihygro treatment to prevent this.

Strengthening

- If it is necessary to restore the original strength characteristics of the stone surfaces before restoration or applying future protection, they should be impregnated with the appropriate grade of Remmers Stone Strengthening Solution.

Repair and Reprofiling

- Damaged stone blocks are restored using colour matched Remmers Restoration Mortar in the same shade. The masonry is then repointed using the same binder and suitably graded / coloured sand or pre-batched Remmers Joint Mortar.

Protective Treatment: Water Repellent / Anti-Graffiti Protection / Scumbling

- Apply Remmers protective surface treatment as selected, including Remmers Facade Cream, Remmers Historic Scumble or Remmers Anti Graffiti System.



Natural Stone Facade Cleaning and Restoration System and Application Overview



Cleaning and Salt Removal

Cleaning is not just for the appearance: layers of dirt store moisture and pollutants which prevent the substrate drying out. Select the appropriate cleaning method from trials of the Rotec system, Arte Mundit and Remmers chemical cleaning. Salts are removed from the surface area with Remmers Desalting Compress.



Masonry Stabilising

To increase the stability and consolidate loose masonry, the voids are low pressure grouted with Remmers Borehole Suspension Mortar or Remmers Historic Grouting Mortar.



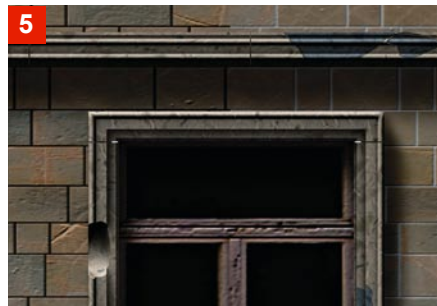
Hygic Swelling Reduction

A major cause of stone damage is "hygic expansion" which is caused by swellable clay particles within the stone (has an earthy smell when the stone is wet). The degree and rate of swelling can be reduced by treating the stone with the unique Remmers Antihygro Swelling Reducer, currently the only available product of this type.



Strengthening

The purpose of strengthening is to restore the original strength characteristics by the targeted addition of suitable binders. Remmers have a large range of silica ester (KSE) based stone strengthening solutions available for this special purpose.



Repair and Repointing

Damaged stone blocks are replaced or restored with Remmers Restoration Mortar. They are then repointed with a pointing mortar produced with the same binder, using a suitable grading and colour of sands.



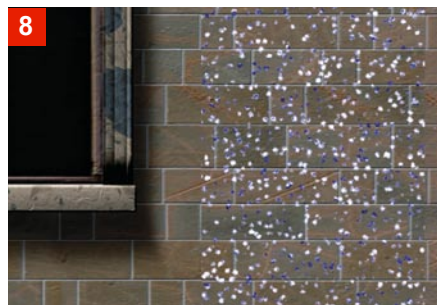
Preventing Organic Growth

For preventative long term protection against moss, mould and algae growth, Remmers Impregnation BFA microbiological growth inhibitor should be applied before the final protective surface treatment.



Protection: Hydrophobic Water Repellent

Remmers hydrophobic impregnations are applied to ensure water repellence. These can be applied as a liquid, or alternatively as Remmers special gel / cream formulations for total control.



Protection: Anti-graffiti System

Remmers Anti Graffiti System can be applied in designated areas. It is also water repellent and makes any future graffiti easier to remove.



Protection: Scumbling

Some types of stone cannot be given an adequate hydrophobic impregnation due to their open structure. If water repellence is still necessary, it can be achieved with a surface scumble. Remmers Historic Scumble and Slurry Scumble were specially developed for this purpose.

Important Note: All materials must be applied fully in accordance with the latest edition of the relevant products technical data sheet, all of which are available at www.remmers.co.uk