



## Stone Restoration



Stone restoration repair options are broadly the same as those used for other types of masonry and include complete renewal, insitu surface restoration, or consolidation.

Causes of stone masonry failure are most commonly; incompatible materials placed beside one another, inadequate weatherings and poor quality repairs. The use of hard mortars in re-pointing is a common cause for stone deterioration.

### Indenting new masonry

New pieces of masonry can be indented into an existing structure to replace defective areas of stonework.

### Insitu restoration using reinforced repair mortars

A defective area of masonry can be cut out and repaired using restoration mortar. The area of repair is dampened and stainless steel dowels are fixed into the host area of repair if required, before the area is restored forward with mortar to its original line and profile. Such repairs are colour matched to the surrounding stonework as closely as possible.

### Pinning and grout injection

Areas of unstable or loose stonework can be consolidated using grouting or pinning techniques. Grout is pumped into the unstable masonry structure to bind the masonry together while producing what is in effect an invisible repair. Pinning can be used to fix loose pieces of masonry to the main structure and improve the stability of the substrate. Stainless steel dowels are drilled into the stonework and fixed in place with epoxy resin.



### *Restoring A Past. . . Preserving A Future...*

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