

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.

External stonework often requires cleaning in order to adequately identify concealed defects. Once diagnosed various repair methods can be adopted depending upon the type of stone masonry and the extent of the decay.

Stone:

Indenting new masonry

New pieces of masonry can be indented into an existing structure to replace defective areas of stonework. Each piece of stone is carefully measured and cut to fit before stainless steel dowels are drilled into the stonework, set in an annulus of epoxy resin. The stone is then fitted into its position within the host substrate.

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 where necessary non ferrous reinforcements are fixed into the host area where the repair is required. This area is then restored forward with mortar to its original line and profile. Such repairs are colour matched as closely as possible to the surrounding stonework.

Pinning and grout injection

Areas of unstable or loose stonework can be consolidated using grouting or pinning techniques. Grout is pumped into the unstable 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.



Stone Cleaning • Restoration • Marble Maintenance • Concrete Repair

Supply & Fixing of Natural & Pre-Cast Stone

Supply & Fixing of Marble/Granite/Terrazzo

Repairs to Cornices, Soffits & Ashlar Stone

5 WELLS PLACE
REDHILL
SURREY RH1 3DR

TEL: 01737 644111
FAX: 01737 648300

E-Mail: info@metropolitanstone.co.uk
www.metropolitanstone.co.uk



Certification number 1450/97