



BRENDAN TEASDALE MASONRY CONSERVATION LTD

<http://teasdalemasonry.co.uk> 07795 217 543

Search:
teasdalemasonry



Lindisfarne Priory

Lindisfarne Priory's powdery surface was evidence of stone decay, caused by harmful salts, preventing water evaporation and causing the stones to rupture and break down.



Lindisfarne, also known as Holy Island, was the site of the earliest Christian monastery in Anglo-Saxon Northumbria. Irish monks settled here in AD 635 at the invitation of the Northumbrian King, and the monastery became the centre of a major saint's cult celebrating its bishop, Cuthbert. The community moved inland after Vikings raided the Island in 793.



Where stone decay is evident within historic masonry fabric, this has often been caused by harmful salts within the structure. In many cases, harmful salts are the main contributor to stone decay, salt is soluble, and stone is porous. Salt laden moisture enters the pour structure within the stones where it is deposited, when these harmful salts dry out, they crystallise and expand. Over time this action slowly breaks down the structure of the stone. Cement over pointing will further limit the water evaporation and harmful salts from the stone therefore accelerated decay is usually inevitable. This type of decay is often found in the form of blistering or a friable powdery surface on the face of the stones.



Moisture must be able to drain from the stones and cement mortars are too hard (in general) to allow this, thus, should never be used on historic building fabric. The use of traditional slaked lime mortars is very important on historic structures. The lime mortar should be weaker or more porous than the surrounding stones so that, when a wall becomes wet, the moisture within the stones can disperse and be drawn away from the surrounding stones and out of the mortar joints where it is driven off into the atmosphere.



Lime mortar was used in the conservation of Lindisfarne Priory, an understanding of material science and local knowledge of available materials was the key to successful conservation at Lindisfarne Priory.



Find out more online, or scan our QR Code with your smartphone.

KEY PROJECT INFO

Client:



Skills: Masonry Consolidation and Preservation
Stone Replacement
Masonry Repointing and Grouting
Scaffolding



Search:
teasdalemasonry

