



ROMAN CONSTRUCTION PRODUCTS

User Guide

Natural Roman Cement

The benefits of Natural Roman Cement (NRC):

Versatile:

NRC can be used in almost any situation where lime or Ordinary Portland Cement (OPC) is used. Unlike other cements, the unique buff colour does not produce any grey tones. Suitable for conservation and new build projects where characteristics such as breathability, flexibility and colour are important.

Reliable:

Naturally retarded, NRC provides a reliable set, particularly for winter build projects. It will set under water.

When combined with lime it is very well suited to historic masonry and renders. Mixed with the right aggregate and lime, NRC will produce a more flexible material with a vapour open quality, similar to air lime.

Convenient:

NRC can be applied as fresh on green coats, potentially enabling completion of large areas in one day. Very low shrinkage rates avoid cracking. No chemical additives are required to control the speed of set. NRC is available in convenient 18kg bags for gauging a full mixer load.

Natural Roman Cement does not require retarding; it can be used neat, or with various aggregates, limes, fibres and mesh types. Do not use below 5°C or over 30°C.

Workable life of fresh mortar: 60 minutes, variable according to temperature and conditions.

Suggested Mixes: (parts)

NRC:LIME:SAND

2 : 1 : 9

1 : 1 : 6

1 : 2 : 7

1 : 0 : 2.5



Check sand or aggregate void ratios to ensure accurate mix.

Values according to BS EN 1015-19:1999 & BS EN 459-2:2010

28 day flexural strength 1.58 MPa

28 day compressive strength 3.09 MPa

90 day compressive strength 6.29 MPa

28 day water vapour permeability 0.96E-11 kg·m⁻¹·s⁻¹·Pa⁻¹



Where can I use it?

- ✓ Add-mixture for lime
- ✓ New and historic work
- ✓ Bedding mortars
- ✓ Plasters
- ✓ Renders including stucco
- ✓ Screeds
- ✓ Under salt and freshwater repairs & renewals
- ✓ Winter working projects
- ✓ Lower carbon construction
- ✓ Vapour open construction
- ✓ Premix products
- ✓ Limecrete floor alternative
- ✓ Wet areas
- ✓ Exposed buildings
- ✓ Hempcrete
- ✓ Weathering details
- ✓ Low shrink applications
- ✓ Outward leaning walls
- ✓ Emergency repairs
- ✓ Chimney caps & flaunching
- ✓ Parapets & Crenels
- ✓ Garden features
- ✓ Re-pointing
- ✓ Valleys & Verges
- ✓ Drain benching
- ✓ Brick capping & Copings
- ✓ Casting
- ✓ Colour considerations

Blends are suggestions and not specifications, as the composition should reflect the task.