



# Low Strength Conservation Grout - Data Sheet

## PRODUCT

Specifically designed dry, ready mixed Conservation Grout, used for consolidating and void filling of solid masonry.

Binder Strength –Low

Cornerstone Conservation Grouts can be made to suit most historic masonry and conditions.

Factory blended grout using St. Astier NHL2, Silica and Clays, combined with carefully selected additives to improve the grouts physical and mechanical properties. Cornerstone Conservation Grouts are free from cement.

Cornerstone Conservation Grouts are made to order.

## USAGE

Cornerstone Conservation Grout is supplied as a single component dry bagged product that is mixed with water on site to make a fluid grout that can be both pumped and gravity poured.

Low Strength Conservation Grout has a high flow rate and high stability.

Suitable for applications in building conservation where the strength of grout is appropriate for the host material.

For specific application data please contact the manufacturer.

## COVERAGE

After mixing, a bag will produce approximately 19-20 litres of mortar.

## ADVANTAGES

- Quality controlled production.
- Ready to use (add water).
- Free from cement.
- Can be pumped or gravity poured.
- Consistency of mix ratio and working additions.
- High flow and high stability.
- Available in a range of strengths to suit the host fabric.

## PREPARATION

In general, this will be determined by the purpose and application.

The purpose of a grout is to fill voids within the core of the masonry. Whilst it is a relatively straightforward application we would expect appropriate preparation in accordance with best practice.

It is important that the masonry is of a suitable condition to receive the grout and the masonry has been adequately flushed prior to grouting.

We advise that all necessary housekeeping measures are in place for the monitoring and control of the grout, which has the ability to flow considerable distances under the right conditions.

We would recommend that appropriate amounts of clay and/or cotton wool are on site to plug any leaks as and where they might occur.

Please consult manufacturer for further information.

## MIXING

We assume that the grout will be mixed using suitable mechanical equipment.

A bag of Cornerstone Conservation Grout will require 8.5 to 9.5 litres of clean potable water. The water addition will vary according to the application and desired consistency of the grout.

As a dry mixed material, it is possible that some settlement or separation may occur in the bag during transit; when mixing part bags, it is especially important that the dry contents are thoroughly blended prior to mixing with water.

**Best Practice/Advised Mixing** - First add water to a mixing bucket/tub, followed by the Cornerstone Conservation Grout. Using a plasterer's mechanical mixer (or other appropriate mixer) mix the grout thoroughly for a minimum of 2 to 3 minutes, ensuring a lump free mixture.

Only mix immediately prior to application.

Once mixed, the grout should be regularly remixed to maintain product suspension.

Whilst Cornerstone Conservation Grout is a specially designed material with carefully selected additions to prevent settlement it should not be allowed to stand.

Mix until the desired consistency appropriate to the method of placing.

For further information please contact the manufacturer.

## PACKAGING

This product is supplied in polythene lined paper bags.

Pallets contain 40 x 25kg bag (1 tonne pallets).

The paper used is of prime quality and suitable for recycling, the packaging is a mixed material and should be recycled accordingly.

## STORAGE

This product should be stored in dry conditions, in unopened bags and clear from the ground. Always protect bags from water and damp.

Use within 6 months of manufacturing date (provided on each bag).

## PERFORMANCE DATA

Based on a water addition @ 9L per 25Kg of formulated grout powder, (equivalent WCR of 0.9) the performance characteristics are as follows;

Compressive strength @ 28 days	1.34 N/mm <sup>2</sup> *
Stability:	100%
Marsh Cone Flow Rate:	15 Seconds
Initial Gel:	16 Hours
Firm Gel:	24 Hours
Firm Set:	48 Hours

\*Mortar fluidity and final mechanical performance (in-situ) will depend on the water addition and methodology of grouting. Gel and set figures given above are based on grout performance in a non-porous media so will likely be quicker in real life scenarios.

## HEALTH AND SAFETY

### **RISK PHRASES:** R36 / R37 / R38 / R43

- Avoid contact with skin and eyes.
- Contact with wet mortar may cause irritation, dermatitis and/or burns.
- Contact between lime powder and body fluid (sweat, eye fluid etc.) may cause skin burns and respiratory irritation, dermatitis or burns.

### **SAFETY PHRASES:** S2 / S24/25 / S26 / S37

- Avoid eye and skin contact by wearing suitable eye protection, protective clothing and gloves.
- Avoid breathing dust.
- Keep out of reach of children.
- On contact with skin and/or eyes, rinse immediately with clean water and seek medical attention.

### **DECLARATION:**

- Cornerstone lime mortars for renders and plasters are manufactured to the requirements of BS EN 998-1: 2010.
- Cornerstone lime mortars for masonry mortars are manufactured to the requirements of BS EN 998-2: 2010. These will contain no cement whatsoever unless stated.

**All Cornerstone products are CE marked and manufactured under an ISO9001:2015 accredited Factory Production Control System.**



Manufactured by Cornerstone Mortars. Supplied via Cornish Lime.

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