



Caring for your older building  
Natural Breathable Sustainable Durable

## Ironstone flagstone Lime Mortar Data Sheet

### Product

Dry ready mixed Lime Mortar (just add water)

Mix Ratio – 2:2.5

Binder strength - NHL 5

Factory blended Natural Hydraulic Lime Mortar with an eminently strong NHL 5 binder from Heidelberg Materials Socli blended with kiln dried Grit and River sand, which are 3.5mm down. The sands are pre washed to remove sediment before being dried.

### Usage

Suitable for pointing patios and paving flagstones where a strong binder strength is required to protect the integrity of the mortar from adverse weather conditions and footfall

### Coverage

After mixing, a 25kg bag will produce approximately 14.5 litres of mortar.

### Advantages

- Quality controlled production
- Consistency of mix ratio
- Significantly improved workability and reduced risk of shrinkage
- Improved and even cure which offers an improved bond with the substrate.
- Extended working and finishing time.

### Colours

This product is entirely natural.

### Surface Preparation

Before pointing clean and remove all dust and loose material from joints and masonry

Where necessary the background should be adequately dampened to promote adhesion/bond with the host surface.

## **How to Mix**

Slowly add 25kg of Ironstone flagstone Mortar into a drum mixer. Add only 4 to 5 litres of clean water. Pour the water in slowly as the product mixes, using just enough to achieve the correct workability. Mix for 5 – 10 minutes. Ironstone mortars may be re-worked for up to 8hrs.

Always avoid making the mortar too wet as this can promote shrinkage. Whisk mixers are also suitable for use.

It is possible for settlement to occur in the bag in transit, hence if mixing a part bag ensures the contents are thoroughly blended prior to mixing with water.

Like most Lime mortars the flagstone mortar will benefit from being allowed to stand for 10 to 20 minutes after mixing, before use.

## **How to Apply**

Lime mortars should be finished the same day or the following day in cooler periods. Lime mortars require longer curing times than cement, but the methods and principles of application are similar.

## **Curing and Why**

Natural Hydraulic Lime (NHL) mortars do not set as quickly as modern cement based products. NHL starts to set once water is added and hardens by reacting with carbon dioxide which is a slow process. Strength and long term durability are achieved over months, not days. Protect the mortar against the effects of drying winds, strong sunlight, rain and frost. In warm weather gently mist spray with water after application and cover if required with damp hessian. In cold weather cover fresh mortar with protective layers of hessian to help avoid frost damage.

## **Packaging**

Available in 25kg polythene lined paper bags or sealed one tonne bulk bags. The paper used is suitable for recycling.

## **Storage**

This product should be stored in dry conditions, in unopened bags and clear from the ground. Use within 6 months of manufacturing date (provided on each bag)

## Performance

| Test                           | Performance |
|--------------------------------|-------------|
| Compressive Strength nmm2      | 4.49        |
| Fresh mortar density kg/m3     | 1938.33     |
| Water absorption kg/m2         | 1.72        |
| Flexural Strength nmm2         | .63         |
| Water addition rate ml per 1kg | 157.3       |
| Dried mortar density kg/m3     | 1734        |
| Air entertainment %            | 12.46       |

## Health and safety

| Risk Phrases                                                              | Safety Phrases                                                                             |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| R36/37/38 Irritating to eyes, respiratory system and skin                 | S22 Do not breathe dust                                                                    |
| R43 Contact with wet mortar may cause irritation, dermatitis and/or burns | S26 In case contact with eyes, rinse immediately with plenty water and seek medical advice |
| R66 Repeated exposure may cause skin dryness and cracking                 | S24/25 Avoid contact with skin and eyes                                                    |
|                                                                           | S36 Wear suitable protective clothing                                                      |



Manufactured in the UK in partnership with  
Heidelberg Materials Socli  
Ironstone products are CE marked and  
manufactured under an ISO9001:2015  
accredited Factory Production Control System



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