

# RESTORATION MORTAR



TDS-010 Mar 2020

## General

Amber Valley Stone restoration mortar is designed for the restoration of our cast stone. It is mineral-based and free of synthetics. The pigmentation — matched to the original stone — is resistant to lime, cement and sunlight. Special formulations can be supplied in quantities greater than 100 Kg.

## Performance

The restoration mortar provides a very solid restoration, with good effect.

## Repair Sequence

### Step One

Make sure the area you are about to repair is free from any dirt or loose materials. If you are going to wash the stonework down, this must be done before any repair work is undertaken.

### Step Two

When the area is clean, slightly dampen the area to be repaired with water, then apply a waterproof PVA to the area to be repaired (do not allow the glue to go outside this area).

### Step Three

Then mix the dry powder supplied by Amber Valley Stone with a little water so that the mix is of a stiff texture (only mix a small amount at a time). When this is done apply the mix to the area to be repaired and slightly overfill.

### Step Four

Using a steel trowel or a piece of wood flat on the stone in a circular motion, cut away the excess repair mortar so that the repair is now flush with the original stone.

### Step Five

Now trowel out any imperfections so that the repair is now as smooth as the surrounding stone. If the repair has smudged around the edges, use a small paint brush and a little water carefully. Clean it back to the edge of the repair so that when the repair has dried there is no white halo mark around it.

### Step Six

For a large repair that is deep, stainless steel screws may be drilled and fitted into the stone and wire wrapped in between them to give the repair something to grip to. The area can be rebuilt to a maximum of 20mm per day, scoring each layer till the desired amount is achieved. Steps 2-5 should then be carried out again.

### Step Seven

24 hours after the repair has been done, the area should be lightly rubbed down with a fine carborundum stone (if required) and a clear water seal applied to the repaired area only. The repair is now completed.

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## Cleaning Safety

Clean tools, mixing vessels etc, with water before hardening of the material.

Normal precautions should be taken as with any cementitious product. These may include the use of barrier creams, protective gloves to cover the hands and forearms and a skin cleansing cream once the working period is over. Any splashes to the skin or eyes should be washed copiously with water immediately when they occur. Please see relevant manufacturers data sheets when using the impregnation products.

## Storage

Keep containers closed, dry and frost free.

## Technical Data

### Coverage:

2.0 Kg/1 of cavity

### Flexural Strength:

|               |                        |
|---------------|------------------------|
| After 3 days: | 0.66 N/mm <sup>2</sup> |
| After 7 days: | 2.22 N/mm <sup>2</sup> |

### Compressive Strength:

|                |                        |
|----------------|------------------------|
| After 3 days:  | 1.64 N/mm <sup>2</sup> |
| After 7 days:  | 6.40 N/mm <sup>2</sup> |
| After 28 days: | 17.8 N/mm <sup>2</sup> |

### Shrinkage Deformation:

|                |            |
|----------------|------------|
| After 7 days:  | 0.267 mm/m |
| After 14 days: | 0.102 mm/m |

Recommendations for the use of our products are based on the latest facts and findings in the manufacturer's laboratories.

In the view of the diversity of substrates, prevailing conditions and conditions of use, we cannot accept any responsibility for the validity of any particular recommendations, nor can the purchaser or applicator be absolved from his obligation to ensure the material is suitable for the purpose intended.

Our general conditions of sale are valid for all sales of this material.

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