



# COSTAR DAMPMASTER 10

## Cementitious Injection Mortar

### PRODUCT DESCRIPTION

Costar Dampmaster 10 is a one part polymer modified cement based Injection mortar that diffuses within the damp wall to form a Damp Proof Course (DPC) when injected into the wall area or mortar affected by dampness. It comprises of special cement based components and admixtures. It is mixed with water to form a slurry or mortar material that can be applied directly to a variety of construction substrates.

### ADVANTAGES

- Cement based and non-flammable.
- Spillage virtually eliminated from the site.
- Simple and Fast application.
- Does not require special injection.
- Eliminate need for preliminary watertight sealing around injection holes.

### APPLICATION AREA

Costar Dampmaster 10 can be used to treat rising damp in all masonry walls such as: Solid brick, Cavity walls, rubble infill walls etc.

### APPLICATION INSTRUCTION

#### Drill holes

For efficient treatment, 12mm diameter holes is to be drilled at horizontal centers no greater than 120mm apart. The table below shows the depth of holes required for different wall thickness. For all other wall thickness, the depth of the holes shall be within 40mm of the opposite side.

Wall thickness	Hole depth
110 mm	100mm
220 mm	190mm
330 mm	310mm
440 mm	420 mm

Drill should be done horizontally, directly into the mortar course, preferably at the base ends of the bricks of the course selected. After the drilling operation, each individual hole needs to be thoroughly cleaned using a clean compressed dry air blower.

#### Substrate Preparation

Where required, remove skirting boards and/or render/plaster to identify and expose the original masonry and the appropriate mortar course to be treated. Measure the thickness of each wall to be treated. Set the depth gauge of the drill or apply tape to the drill bit to identify the correct drilling depth.

**Mixing:** 3.5L to 4L/ 20kg Bag of Dampmaster 10.

#### Injection

Insert the delivery tube of the application gun into the full depth of the pre-drilled hole. Squeeze the gun trigger and back fill each hole fully with Costar Dampmaster 10 to within 1 cm of the surface. When treating cavity walls from one side fill the holes completely in each side wall. Dispose used sausages in a plastic bag and in accordance with local regulations.

#### Making good of holes

All drilled holes shall either be plugged or filled and pointed overusing appropriate Costar mortars. Some surface stains may occur around the injection site which can be easily brushed off when dry.

#### Composition

The table below shows the theoretical number of sausages consumed per wall thickness.



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### Consumption

The table below shows the theoretical number of sausages consumed per wall thickness.

**Note:** Variable site conditions can obviously cause variation in consumption. Always allow at least an extra 10% when estimating the quantity of material required

Length of wall	Wall thickness			
	110mm	220mm	330mm	440mm
10m	1.5	3.0	5.1	2.0
20m	3.0	6.0	10.2	13.0
30m	4.6	9.0	15.3	21.0
40m	6.1	12.0	20.4	23.0

### TECHNICAL PROPERTIES

Packaging	20kg
Appearance	Grey
Shelf life	12 months from date of production
Storage conditions	Product must be stored in original, unopened, undamaged sealed packaging in dry condition a temperature between +5 °C and +35 °C.
Mixing ratio	4ltrs of water per 20kg bag
Application temp	Minimum 10° C Maximum 30° C
Density	Fresh mortar density: ~ 2.1 kg/l (1.8 kg/liter powder)
Compressive strength	3 day ~ 20 N/mm <sup>2</sup> (According to EN 1-916) 28 days ~ 40 N/mm <sup>2</sup>
Elasticity in compression	Static: ~ 18 kN/mm <sup>2</sup>
Flexural strength	3 days ~ 5 N/mm <sup>2</sup> (According to EN -19)6 28 days ~ 9 N/mm <sup>2</sup>
Tensile strength	>1.5 N/mm <sup>2</sup> (failure in substrate)
Permeability to water vapor	3 MNsg-1
Substrate temp	+5 °C min. / +35 °C max
Pot life	~ 45 minutes at +20°C
Waiting time/over-coating	Apply 2nd coat within-67 hours of first coat.

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### STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

### STANDARD COMPLIANCE

Conforms to the requirements of BS EN 1504-2:2004

### HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

### ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-Proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

### LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

