

Product Data Sheet

**DUROX THIN JOINT MORTAR**

CONSTRUCTION AND INSTALLATION GROUTS

**Description**

**Durox Thin Joint Mortar** is a Portland cement based powder mix which is polymer modified. The formulation includes selected high quality graded sands, special shrinkage compensating components plus powerful plasticising agents which produce a workable thixotropic mortar at a low water content. The resulting mix enables thin joints between thermal blocks to be made. Horizontal and vertical joints are formed down to 3mm in thickness. These thin joints contribute to the maintenance of built wall U-values. **Durox Thin Joint Mortar** is supplied ready for on site use requiring only the addition of measured mixing water. The mixed mortar will remain workable for two hours with periodic agitation. Once mixed the mortar is placed using a notched trowel along horizontal and vertical joint lines. The thixotropy of the placed mortar plus a high early "grab" between blocks produces stability in the blockwork sections during construction. Overhangs of block courses are stable and do not require any special support. Thin Bed Mortar joints are suitable for external and internal leaf construction giving strong joints suitable for the erection of load bearing wall sections.

**Uses**

**Durox Thin Joint Mortar** is used in conjunction with **Durox Blocks** to provide builders with a fast build thermally efficient system for all types of buildings.

**Benefits**

- Increased thermal performance.
- Dramatically reduced build time.
- Completely waterproof walls.
- Low maintenance costs.
- No cold bridging.
- No thermal stress in the structure.
- Factory blended and quality assured.
- Available in grey or beige.

**Yield**

Each 25kg bag of Durox Thin Joint Mortar will yield approximately 19.6 litres per 25kg bag.

**Typical Performance**

Technical Data	
Compressive strength	Category M8
Chloride content (theoretical)	0.0015%
Correction time	15 minutes
Aggregate size	< 1.0mm
Bond strength	0.3 N/mm <sup>2</sup>
Water vapour permeability	μ 5/20
Density	1600 kg/m <sup>3</sup>
Thermal conductivity	0.42 W/mK
Reaction to fire	Class A1
Durability	The mortar has a freeze/thaw resistance when applied in the intended place of use
Water solids ratio	0.24

Tested by UK AS accredited laboratory in accordance with BS EN 998-2.

**Mixing Instructions**

**Durox Thin Joint Mortar** is supplied in 25kg bags. The water requirement for each bag is approximately 6 litres (24% of powder weight.). Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended and suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a forced action mixer such as the Creteangle. Mixing should be continued for two minutes after all the powder has been added to the mixing water. Additional water may be added to achieve the required consistency. The correct consistency is achieved when the mortar trowel is combed through the mortar and the ridges formed stand up on the block.

## Application and Placing

All contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material by light brushing. The first course of blocks should be laid using a standard mortar to level out the uneven parts of the foundation blocks or concrete.

Apply the **Durox Thin Joint Mortar** to the joint faces using a notched scoop or trowel to a thickness between 2 and 4mm. Place the adjacent block immediately onto the notched mortar and lap into place. Horizontal and vertical joints are formed for each block as it is put into the wall section. If there is an overhang at the end of a course, (before the return is placed), these will be self supporting due to the thixotropy and grab of the **Durox Thin Joint Mortar**. The correction time for the mortar is approximately 15 minutes and any slight adjustment of blocks must be completed within this time. The correction time is subject to temperature and may be significantly shorter at high temperatures.

**Durox Thin Joint Mortar** may be applied at temperatures between 5°C and 30°C.

For most ambient conditions no special curing is required. In fast drying conditions, such as direct sun or warm strong winds, mist spraying or temporary covering should be applied.

## Packaging and Storage

**Durox Thin Joint Mortar** is available in nominal 25kg sacks, palletised and shrink wrapped. **Durox Thin Joint Mortar** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised **Durox Thin Joint Mortar** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high.

The product should be used on a first in – first out basis.

Shelf life is minimum 3 months but could be in excess of 6 months subject to temperature and humidity.

## Quality Control

All Pozament products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001.

## Clean up and Spillages

Dry powders should be swept up and disposed of in accordance with the Local Authority.

## Information, prices & ordering

For technical information, pricing and to place orders contact our **Sales Office on the following:**

Telephone: **08444 630046** Fax: **08443 099703**

Email: **pozament@tarmac.co.uk**

Visit our website: **www.pozament.co.uk**

Pozament - Tarmac Building Products Ltd.,  
Swains Park Industrial Estate, Park Road,  
Overseal, Swadlincote, Derbyshire DE12 6JT.

## Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children