

LIMELITE HERITAGE HYDRAULIC MORTAR (HHM) 'Narrow Joint'

USES

HHM has been formulated for use as a pointing/repair material in historic structures. Typical examples would include stone masonry structures such as bridges, viaducts, listed/protected buildings, waterways structures including canals, churches and other ancient monuments.

DESCRIPTION

HHM is a dry preblended bagged mortar product comprising fine sand and traditional binders. In dry form HHM is off white in colour and has a fine grained/powdery texture. Water needs to be added to the dry bagged mortar to produce a light coloured pointing/bedding mortar.

MIXING

HHM can either be hand or machine mixed. When hand mixing, significant effort is required to ensure a homogeneous composition. Only small quantities of 5-10kg at a time should be chosen for hand mixing. When machine mixing HHM mortar can be either mixed using a tumbler type drum mixer normally used for contemporary bricklaying mortars or using a shallow mixing vessel and drill paddle. Whichever method is used the objective is to achieve a consistent homogeneous mortar throughout.

Water used for mixing should be gauged at approximately 20% by weight of dry mortar, i.e. 5 litres of water per 25kg bag. Water should be clean and free of deleterious matter and should ideally be of potable quality complying with BS EN 1008. Water content should be adjudged by trial batch to determine appropriate water content for the placing and consistency required.

PLACING

HHM can be placed either by hand using traditional hand pointing techniques or can be applied using a pressure pot placing apparatus. The latter technique can prove efficient for larger placing quantities although care and training are required in utilisation of the apparatus.

YIELD

The approximate yield of HHM is:

Batch Size	Yield
25kg nominal weight	14 litres
1000kg nominal weight	560 litres

To produce 1m³ of finished mortar, approximately 67 x 25kg bags will be required.

Alternatively to produce one mortar joint at 15mm thickness and 30mm deep 1 nominal 25kg bag will produce approximately 30 linear metres of mortar.

PERFORMANCE

HHM contains a natural hydraulic binder. Setting time is considerably slower than conventional Portland cement based mortars and at 20% water content the set time is approximately 24 hours at 20°C. Strength development with age not only relies on hydraulicity but also on carbonation and this latter process is developed over a significant period of time.

For guidance, and at 20% water content, HHM has been tested for strength development with age and has realised the following:

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Compressive Strength on 100mm cubes at 20°C

7 days	1.0N/mm ²
28 days	2.3N/mm ²
90 days	4.2N/mm ²
Flexural Strength on 40 x 40 x 160mm prisms:	
90 days	1.75N/mm ²

PROTECTION AFTER PLACING

As with Portland cement based mortars early protection of freshly placed **HHM** will prove beneficial in the long term.

Freshly placed mortar joints should be covered with securely draped polythene and or hessian which will prevent over exposure to direct sunlight or drying winds. Normal procedures adopted for building in cold weather may apply.

CLEAN UP AND SPILLAGES

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

PACKAGING AND STORAGE

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

Palletised HHM 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 when properly stored but could be in excess of 6 months subject to temperature and humidity.

HEALTH AND SAFETY

Ensure correct protective clothing is used whilst using **HHM** powder and mortar. Skin contact should be avoided and any eye contact should be dealt with promptly by irrigation with clean water. **For further information see separate Material Safety Data Sheet for HHM, reference 60/1A.**

QUALITY CONTROL

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

INFORMATION, PRICES & ORDERING

For ordering contact: 01283 550060.

Fax: 01283 550486.

For all other enquiries contact: 01283 554800.

NB: Please give not less than 48 hours notice.

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