

TDP Mortar Fleece

Protects mortar and brickwork during construction



TDP Mortar Fleece can be used to protect:

- Brickwork/blockwork or other materials requiring a mortar bond
- Cavity walls
- Single brick/block walls

TDP Mortar Fleece can be used in the following building applications:

- House building
- Industrial building
- Garden and landscape walling
- Conservatory brickwork/blockwork
- Public park structures and amenities
- Civil construction

Mortar Fleece gives all year round protection for your mortar and brickwork

TDP Mortar Fleece has been designed to protect mortar and brickwork in construction against heavy rain, frost and hot, sunny conditions.

The product comprises a lightweight fleece material with a waterproofed central section. For securing the mortar fleece, slits have been machined along each edge for suitable tethering at intervals of 55cm. The slits have an inherent strength to cope with winds and loadings equivalent to a force 8 gale and up to 8.6kg direct loading.

Being a durable product, TDP Mortar Fleece can be used over and over again.



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Frost protection

Tests measured to simulate winter working followed by a sharp overnight frost of -5°C .

With TDP Mortar Fleece protection, mortar, within a typically built brick wall, showed a resistance to freezing for more than 6 hours.

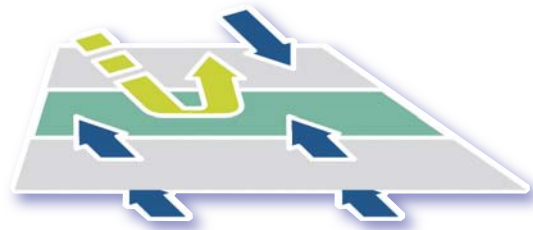
For a further period of 16 hours the protected wall temperature showed a stable temperature of around 0°C whilst the unprotected wall showed a rapid decrease in temperature to below -7°C within the same time-frame.



Rainfall protection

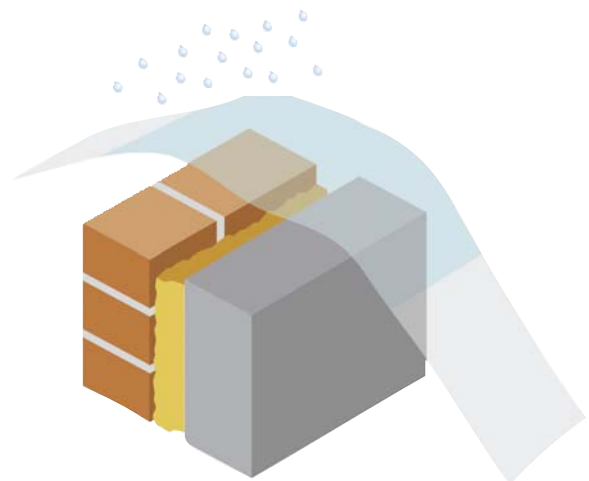
The test method involved water absorption to simulate an extremely heavy rainfall over a period of 3 hours on two identically built brick walls.

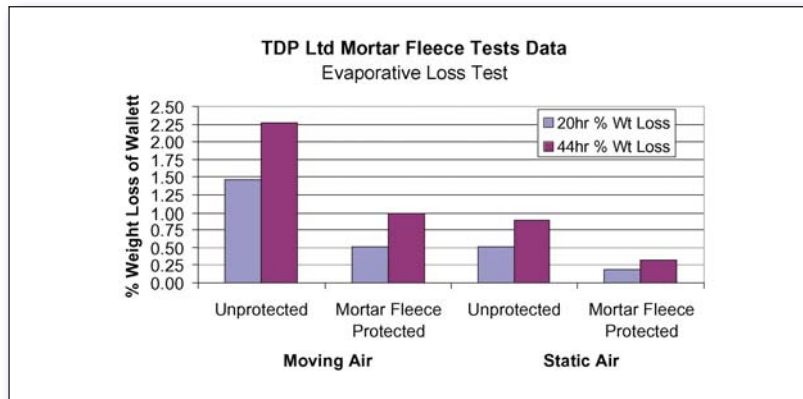
The unprotected wall showed a weight gain of 750g and the TDP Mortar Fleece protected wall only gained 54g. This indicates that the Mortar Fleece offers a 93% reduction in the uptake of water thus providing a significant protection from the saturation of the brickwork, cavity and blockwork.



Efflorescence

Efflorescence, the staining of brickwork through excess water or moisture retained in bricks and cavities, is a common problem. Although no detriment to the strength of the structure, the effect is unsightly and provokes many unnecessary complaints. TDP Mortar Fleece will prevent efflorescence and general ingress of water in brickwork and cavities.





Drying out protection

Tests were carried out on two walls – one protected with Mortar Fleece and the other an identical wall without protection.

The tests involved heating a test area to a controlled temperature of $17.5^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and then measuring the protection against evaporative losses with moving air and then with static air. In both conditions there will be a tendency to accelerate drying of the mortar which can impede the hydration process and impair strength development.

In the moving air test (designed to simulate dry, warm and windy curing conditions) the results showed that a protected wall gave 66% protection of evaporative losses after 20 hours and 56% after 44 hours compared to an unprotected wall. The reduced evaporative losses will improve the strength development of the mortar by retaining moisture needed for complete hydration of the cement component of the mortar.

In the static air test, the protection given on the protected wall showed a saving of evaporative losses by 63% for 20 hours and 65% for 44 hours.

In general, the protection offered by Mortar Fleece against the evaporative losses resulting from dry, warm air and moving dry, warm air, will result in better strength gain of the mortar and a reduction in the likelihood of premature drying out of the mortar and thus longer-term strength and durability.

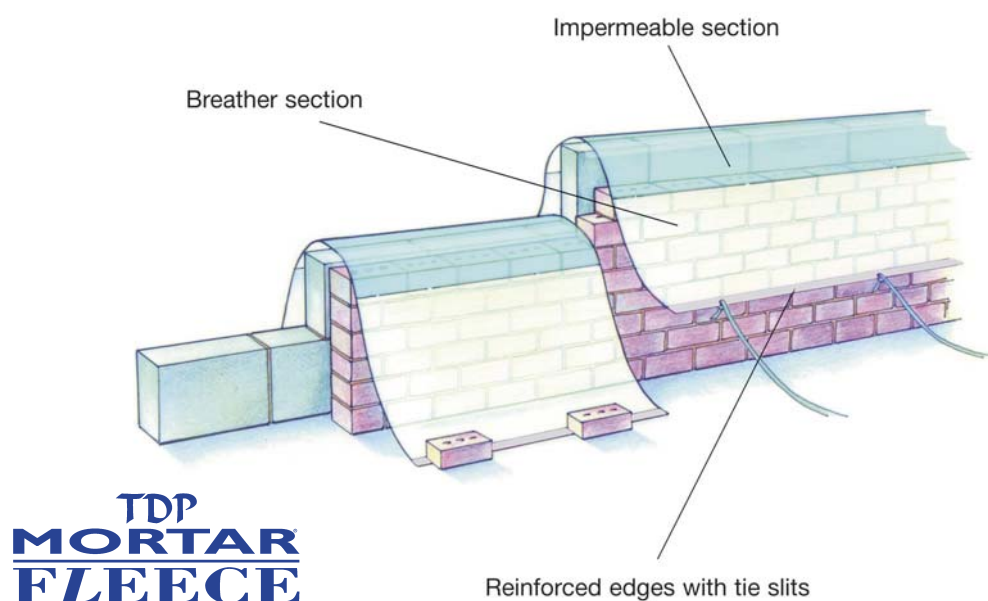
Please note that figures stated are from independent tests carried out for and on behalf of TDP Limited by CERAM Building Technology, Stoke on Trent.

TDP Mortar Fleece® is a registered trademark of TDP Ltd.

TDP Mortar Fleece® is patented. Patent No. 2415224

TDP

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Roll sizes:

TDP Mortar Fleece	1.5m x 30m
TDP Mortar Fleece	1.5m x 100m

Weights inclusive of wrapping:

TDP Mortar Fleece 1.5m x 30m	2.2kg
TDP Mortar Fleece 1.5m x 100m	7.33kg



Tried and tested at
CERAM BUILDING TECHNOLOGY

Test reference number: SW 319/04