

Bound Permeable Jointing Mortar

To alleviate the issues of maintenance associated with unbound permeable construction a bound constructive permeable drainage mortar can be employed. This allows the joints to be cleaned without detriment to the structure and if properly constructed should structurally be zero maintenance throughout its service life.

tuffbau produces a system of mortar for this type of construction using tuffed 2-pack permeable bedding mortar, tuffbond priming mortar and tuffow permeable jointing mortar.

Advantages:

- No resins, no polymers.
- Strong rigid jointing mortar for permanent installation.
- Maintenance, durability, trafficking/loading, versatility.
- Can be lightly jet washed and swept/brushed to keep clean and silt free to maintain aesthetics and permeability.
- Suitable for public spaces with heavy pedestrian traffic, vehicular overrun, domestic patios and driveways (see below).
- No need to regularly top up joints as is required with unbound jointing aggregate.
- Low maintenance rigid/bound construction avoids the rapid degradation of joints and movement of pavers associated with unbound permeable paving.

Joint width and dimensions of paving units:

Due to the size of particles required to create a free-draining jointing mortar the joints need to be at least 10mm wide to enable application and effective flow. Joint widths of between 10mm and 20mm are generally recommended.

The larger the paver the wider the joints need to be to drain the same amount of rainwater so for large paving slabs joints wider than 20mm can be installed however the permeable jointing mortar becomes more exposed and so the maintenance requirement can increase.

Permeability:

We recommend designing permeable paving according to the SuDS manual recommendations relating to issues such as rainfall, catchment, flow rates, attenuation, etc. Contact our technical team for assistance.

Trafficking/Loading:

We recommend following the guidelines of BS 7533 in order to construct a structurally sound pavement according to the ground conditions and intended use.

tuffow jointing mortar should be assigned a 25 N/mm² mortar strength designation when referencing the above standard. Please contact our technical team in all cases for assistance.

Technical Specification

Colour	Dark Grey
Packaging	8 kg sack
Joint width	>10 mm
Typical water used	1 litre per 8 kg sack
Working time	30 min at 20 °C
Working temperature	2-30 °C
Compressive strength (20 °C)	28 days: ~25 N/mm ²
Storage life	12 months from manufacture date
Compliance	BS 7533-101:2021 type 25



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