



tuffflow Fully Permeable SuDS Jointing Mortar

To understand tuffflow it is useful to know how it is packaged, ordered and handled. tuffflow is a two-part product comprising; a dry powder binder in 24 kg bags each containing 3no. sealed sachets and a 2-6 mm crushed igneous rock aggregate in separate 25 kg bags (tuffgrit). When ordering; specify 1no bag of binder to every 3no. bags of aggregate. The bags of binder and aggregate arrive on site on separate pallets (see below: 'Important - Ordering'). tuffflow binder is mixed with the aggregate on site at the ratio of 1 tuffflow binder sachet (8 kg) : 1 tuffgrit aggregate (25 kg).

Product Summary

tuffflow is a revolutionally jointing mortar used in the construction of pavements where permeable jointing is required to provide benefits such as very shallow falls or minimal number of drainage fittings for example, or where a SuDS type modular permeable pavement is required.

tuffflow is suitable for use with natural stone setts & slabs, concrete blocks & flags, porcelain & clay pavers.

Product Applications

tuffflow fully permeable jointing mortar, when used in combination with tuffbed 2-pack free draining Type 35 bedding mortar and tuffbond priming mortar, enables the construction of a bound SuDS permeable pavement constructed in natural stone, clay, concrete, granite and exterior quality porcelain paving units.

Product Description

tuffflow is a specialist product and to be fully effective the following considerations need to be observed;

Joint width and dimensions of paving units: Due to the size of particles required to create a free-draining jointing mortar, for optimal performance joints should be at least 12 mm wide to enable application and effective infiltration. Joint widths of between 10 mm and 20 mm can be achieved.

The larger the paving unit the wider the joints need to be to drain the same amount of rainwater and therefore joints wider than 20 mm are possible. However, as the permeable joint becomes more exposed, 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 7533-101 in order to design a structurally sound pavement according to the ground conditions and intended use.

tuffflow jointing mortar is assigned a 25 MPa mortar strength designation when referencing the above standard. Please contact our technical team in all cases for design assistance.

Technical Specification

Usage	Permeable jointing
Characteristics	Two part product; binder and tuffgrit aggregate
Colour	Dark Grey
Packaging (Binder)	24 kg bag (3 x 8kg sachets)
Joint width	10 - 20 mm
Typical water used	1 litre per 33 kg mix (8kg sachet + 25kg aggregate)
Packages per pallet - Binder	48
Packages per pallet - Aggregate	40
Pallet weights	1,182 kg inc. pallet (binder) 1,030 kg inc. pallet (aggregate)
Working time	30 min at 20°C
Working temperature	≥ 2°C
Compressive strength (20°C)	28 days: ~25 MPa
Vertical permeability	> 5.5 x 10 ⁻⁴ m/s
Shrinkage	≤ 0.15%
Storage life	2 years from manufacture date
NBS Sections	Q24
Compliance	BS 7533-101:2021
Uniclass 2015	Pr_20_31_53_60 Paving jointing mortars

Warranty: We warrant that 'tuffflow' is produced to the stated performance standards. On-site testing is recommended to ensure external factors do not compromise product performance.



www.steintec.co.uk/products/details/tuffflow--permeable-jointing/#video



Steintec[®]
high performance paving mortars

1 Northwick Rd
Canvey Island
Essex
SS8 0PU
+44 203 598 9800
www.steintec.co.uk



Technical Data Sheet



tuffflow Fully Permeable SuDS Jointing Mortar

Important - Ordering

Ordering: When ordering, binder and aggregate need to be itemised separately on the order in the ratio of 1x 24 kg bag of tuffflow binder (containing 3x 8 kg sachets) to 3x 25 kg bags of tuffgrit aggregate. Binder and aggregate are delivered to site on separate pallets. Steintec's sales team are always available to assist with working out the correct quantities of binder and aggregate material for each order.

Important Note: tuffflow is a unique and specialist mortar product. To achieve full performance and a successful outcome customers are strongly advised to contact Steintec's technical support team to discuss the particular requirements of their project.

Storage Life

Storage life: tuffflow; dry powder binder: Two years from the manufacture date, stored in dry conditions.



www.steintec.co.uk/products/details/tuffflow---permeable-jointing/#video



Steintec[®]
high performance paving mortars

1 Northwick Rd
Canvey Island
Essex
SS8 0PU
+44 203 598 9800
www.steintec.co.uk