



tuffset G Specialist Multi-Purpose Rapid Mortar

Product Summary

Specialist multi-purpose rapid mortar for bedding, bonding, and jointing in modular pavement construction and as a concrete repair mortar. tuffset G is also used to enhance the durability of pavement surface construction immediately adjacent to ironworks and street furniture installations.

Designed for use in the construction of high impact areas such as traffic tables, where early trafficking is required, and in top to bottom pavement reinstatement where using a single product can facilitate faster working and reduce the effect of unintended workmanship errors.

Product Applications

With exceptionally high strength-gain characteristics, tuffset G has the following pavement construction applications;

tuffset G as a bedding mortar with high strength-gain characteristics bedding - one bag of tuffset G is combined with two bags of tuffgrit aggregate. This mix ratio will achieve trafficking strength after 3 hours at 20 degrees C. For an overnight solution, with a slightly less rapid strength gain, mix one bag of tuffset G with three bags of tuffgrit aggregate.

tuffset G as a bonding mortar - water is added to produce a thick high adhesion slurry paste that can be applied using a trowel or a brush.

tuffset G as a jointing mortar - water is added to produce a plastic just pourable jointing mortar meeting (and exceeding) all the requirements of BS7533-101 Table 12.

tuffset G as an emergency repair concrete - one bag of tuffset G is combined with one bag of tuffgrit aggregate to produce a repair concrete with stiffness modulus, compressive and flexural strength equivalent to C32/40 concrete.

tuffset G for ironworks and street furniture installation - a high strength gain characteristics mortar is produced by combining one bag of tuffset G with three bags of tuffgrit aggregate. For ironworks installation use in conjunction with tuffset 60.

Product Description

A cementitious hydraulic mortar with high-strength gain and enhanced cold weather working characteristics. tuffset G complies with all the performance requirements of BS 7533 for elastic modulus, high adhesion bond, and all-round performance.

By using tuffset G for bedding, bonding, priming and jointing, a modular pavement can be trafficked within three hours.

tuffset G is entirely cementitious and achieves long term performance and a level of durability that isn't possible using resin and polymer based rapid mortars.

Technical Specification

Usage	Bedding, Bonding & Jointing
Characteristics	Two part product; binder and tuffgrit aggregate (bedding)
Colour	Natural Grey, Mid Grey & Dark Grey
Packaging (binder)	25 kg Bag
Joint width	≥ 1 mm
Typical water used	Varies depending on use
Typical consumption / coverage	Varies depending on use
Packages per pallet	40 or 48
Pallet weight	1,030 or 1,230 kg inc. pallet
Set time	3 hours
Working time	15 - 30 min at 20°C
Working temperature	≥ -2 °C
Compressive strength (20°C)	As bedding; 1:1 with tuffgrit; 70 MPa 1:2 with tuffgrit; 40 MPa As jointing; 58 MPa
Flexural strength	3 hours: ~4 MPa (1:1 mix) 1 day: ~6 MPa (1:1 mix)
Adhesion strength	3 MPa
Elastic modulus	(20,000 ± 4,000) MPa
Shrinkage	≤ 0.15%
Storage life	2 years from manufacture date
NBS sections	P31, Q24, Q25, R12
Compliance	BS 7533-101:2021
Uniclass 2015	PR 20 31 53 61 Paving laying course mortars PR 20 31 53 60 Paving jointing mortars

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



N.B. colours are indicative only



Steintec[®]
high performance paving mortars

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Important - Ordering

Ordering: tuffset G when used as a bedding mortar or emergency concrete repair is a two component material consisting of 'tuffset G binder' and 'tuffgrit aggregate' mixed at specific ratios.

- 1:0 (1x binder only) : Jointing and priming mortar
- 1:1 (1x binder : 1x aggregate) : Emergency Concrete Repair
- 1:2 (1x binder : 2x aggregate) : 3 hour; traffic ready bedding mortar
- 1:3 (1x binder : 3x aggregate) : Overnight bedding mortar & for Ironwork installation

Both are ordered separately and delivered together, please contact our sales or technical team for assistance on working out order quantities of each material.

Storage Life

Storage life: Two years from the manufacture date, stored in dry conditions.

Cold Weather Performance

tuffset G COLD WEATHER Performance (3°C) Compressive strength gain

	tuffset G Only	1:1 Mix	1:2 Mix	1:3 Mix
~ 4 hours	~ 19 MPa	~ 27 MPa	~ 15 MPa	~ 10 MPa
~ 6 hours	~ 23 MPa	~ 34 MPa	~ 19 MPa	~ 12 MPa

At 3°C the setting process is retarded, though after it begins, it continues intensively



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