



VOLTEX TBF[®]

HIGH-STRENGTH NON-SHRINK CEMENTITIOUS MORTAR

DESCRIPTION

VOLTEX TBF is a single pack, high strength, non-shrink, cementitious Tie Bolt Filler consisting of a blend of modified special cements and fine graded aggregates. It is free from corrosive substances and chlorides.

APPLICATIONS

The expansion and strength properties of VOLTEX TBF make it ideal to close tie bolt penetrations through re-enforced concrete walls.

INSTALLATION

Preparation

The substrate should be sound, clean and free from contamination. Any debris & surplus water must be removed before any product is applied.

Mixing

VOLTEX TBF should be slowly mixed with water using a slow speed drill and power whisk. Mix for 3 - 5 minutes until a putty-like paste is formed. Allow to stand for 1 minute before use. Do not mix more material than can be used in 30 minutes.

Application

VOLTEX Tie Bolt Filler can be applied normally at temperatures between 5°C and 35°C. Being cement based, good concreting practice with regard to placing at low and high temperatures should be observed. The VOLTEX TBF mortar should be

rolled into a sausage shape approximately the same width as the tie bolt hole diameter, and forced into the section until it makes contact with the rubber bung / tie stopper.

Working Time

Following mixing, material should be placed within 30 minutes to gain the full benefit of the expansion system.

CURING

Initial cure 4-6 hours
Full cure ranges between 24-36 hours depending on the ambient temperature.

CLEANING

All equipment and tools should be rinsed with water immediately after use and then dried.

LIMITATIONS

Do not place when the substrate temperature is below 5°C or when the ambient temperature is 5°C and falling. Protect from frost. Use only clean water. The use of warm water is recommended at low temperatures to accelerate strength development. At elevated temperatures, the use of cold water is recommended.

TECHNICAL DATA

Typical properties @ 20°C

Compressive strength
(BS1881 Part 116:1983)

1 day	15 N/mm ²
3 days	37 N/mm ²
7 days	47 N/mm ²
28 days	60 N/mm ²

Max Particle size	1mm
Pourable life	30mins

Initial setting time	260mins
Final setting time	320mins

SIZE & PACKAGING**Materials Supplied**

8kg re-sealable pails

SHELF LIFE/STORAGE

Store under cover, in unopened bags clear of the ground in cool dry conditions, protected from frost and excessive draught.

When stored as above, and used within 6 months of the date shown on the packaging, the activity of the reducing agent added will be maintained and the mixed product will contain no more than 0.0002% (2ppm) soluble chromium (VI) on the total dry weight of the cement.

HEALTH & SAFETY

Always wear goggles & gloves when applying VOLTEX TBF.

Always consult the appropriate Material Safety Data Sheet before using VOLTEX Tie Bolt Filler.

NOTES

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee.

Further information is available from our technical department.