

# TECHNICAL INFORMATION

## TRUBED UTILITY

### Product Data Sheet 110/09

#### INTRODUCTION

Tarmac Trubed Utility is a correctly proportioned factory mix semi-dry 1:14, cement:sand mixture. Available from factories situated throughout mainland United Kingdom. Tarmac Trubed Utility normally contains a retarding admixture in order to remain workable for up to 12 hours, if required.

#### PRODUCT CONFORMITY

Tarmac factory produced Trubed Utility conforms to the requirements of the ENA Technical Specification 97-1 and material should be used in accordance with this specification.

Tarmac Trubed Utility is thoroughly mixed accurately controlled blends of the following materials:

- Well-graded fine aggregate (sand) conforming to BS EN 12620/ BS EN 13139
- CEM I Portland cement conforming to BS EN 197-1.
- Retarding admixture conforming to BS EN 934-2/3 giving the optimum working time, normally usable for 8-12 hours from the time of mixing.
- Water conforming to BS EN 1008.

#### DENSITY

Typically, 1800-2200 kg/m<sup>3</sup> (well compacted, set and air dried)

#### PERFORMANCE

The mix is usually specified as 1:14, cement:sand proportions by volume.

#### HEALTH & SAFETY

There is a real danger of contact dermatitis or serious burns. To prevent skin coming into contact with wet cement mixes such as fresh concrete, mortar or screed ensure that suitable protective clothing and eye protection is worn. Where skin contact occurs either directly or through saturated clothing wash immediately with soap and water. For eye contact, immediately wash out eyes thoroughly with clean water. If swallowed wash out mouth and drink plenty of water.

For further information please refer to Tarmac Material Safety Data Sheet Screeds.

#### APPLICATIONS

Trubed Utility may be used for a wide range of building and civil engineering applications including the following:

- Bedding/protection of cables
- Covering of ducts
- General infill work

The use of Trubed Utility is often specified for bedding of cables where material containing coarse aggregate may be more likely to damage the embedded components. Trubed Utility provides a specific thermal resistivity and void ratio specifically

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The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.

designed for cabling applications.

Trubed Utility is supplied in a mix proportion of 1:14 to ensure compliance with ENA Technical Specification 97-1.

**AUTHORITY**

Ideal for and complies with ENA Technical Specification 97-1 concerned with bedding and covering of cables. Mix design is controlled to ensure it is specific to this application.

**SPECIFICATIONS**

Properties	Clause	Conformity
Dried-out thermal resistivity	6.3.4	≤ 1.2 Km/W
Void ratio	6.3.3	≤ 0.54
Particle size distribution	6.3.2	≥ 95% by weight of material passing a 5mm sieve

Clauses in accordance with section 6.3 Cement-bound backfill ENA Technical Specification 97-1 Issue 2 2016.

**TECHNICAL SUPPORT**

Tarmac provides a comprehensive sales and technical advisory service to specifiers and customers.

A quality system has been implemented throughout the company since 1975 and quality procedures are in conformity with BS EN ISO 9001:2015

All Tarmac factories hold third party certification from the British Standards Institution. Details of the certification status of individual factories may be obtained from the Technical Helpdesk.

**PRICES AND CONDITIONS OF SALE**

Prices vary according to mix design, quantity and

delivery location.

Prices vary according to mix design, quantity and delivery location. For specific quotations contact your local Tarmac representative or call our National Sales Helpline on 03701 116 116.

All quotations given, orders placed and materials supplied are subject to the Conditions of Sale available via download from the Tarmac website [www.tarmac.com](http://www.tarmac.com) or upon request from your nearest Tarmac Regional Office

**SUPPLY**

Tarmac Trubed Utility is available direct from Tarmac factories located strategically throughout mainland United Kingdom: contact your nearest Tarmac Regional Office for further details

**ORDERING**

When ordering please state Trubed Utility 1:14 in compliance to ENA TS 97-1, quantity, date and preferred delivery time 24 hours should normally be allowed for delivery, although loads can often be supplied at short notice in emergencies.

**DELIVERY TO SITE**

Bulk loads in tipper road trucks generally 10-20 tonnes capacity with larger vehicles often available.

<b>REFERENCES*</b> British Standards Institute	
<b>BS EN 197-1:2011</b>	Cement Part 1: Composition, specifications, and conformity criteria for common cements
<b>BS 7979 : 2016</b>	Specification for limestone fines for use with Portland cement
<b>BS EN 1008:2002</b>	Mixing water for concrete – specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete
<b>BS EN 12620:2013</b>	Aggregates for concrete
<b>BS EN 13139:2002</b>	Aggregates for mortar
<b>BS EN 934</b>	Part 1: 2008 Admixtures for concrete, mortar and grout: Part 2: 2009+A1:2012 Concrete admixtures – definitions, requirements, conformity, marking and labelling
<b>BS 8000-0: 2014</b>	Workmanship on construction site. Introduction and general principles
<b>BS EN 13501</b>	Fire classification of construction products and building elements Part 1: 2007 +A1:2009 Classification using test data from fire reaction tests
<b>Tarmac*</b>	
<b>Product Data Sheet no. 110/11</b>	Tarmac Trubed Eco
<b>Product Data Sheet no. 110/09</b>	Tarmac Trubed Utility
<b>Site Guide No. 2</b>	Tarmac Screeds, Truscreed and Truscreed HD
<b>Tarmac Safety Data Sheet</b>	Screeds
<b>Other*</b>	
<b>ENA Technical Specification 97-1 Issue 2 2016</b>	ENA Technical Specification 97-1

\*Current version applicable to all references