

TARMAC TUF-TOP

DESCRIPTION

Tarmac Tuf-Top is a free flowing, protein free, self-smoothing industrial grade flooring system which is obtained by mixing water with a factory pre-blended formulation of high quality raw materials.

USES

Tarmac Tuf-Top is ideal where heavy industrial traffic is to be utilised and for warehouse racking aisles. **Tarmac Tuf-Top** is suitable for use as the wearing surface or can receive resin coatings.

When laid at thicknesses from 7mm to 20mm **Tarmac Tuf-Top** is suitable for use in warehouses or internal industrial situations where there is a need for a smooth surface which has excellent impact and abrasion resistance.

Tarmac Tuf-Top is not recommended for use in wet environments unless sealed with a suitable waterproof covering.

APPLICATION

In small areas the system can be mixed and placed using a suitable hand drill and accessories but for large areas the use of a mixer pump is recommended. Laying rates in excess of 1000m² per day can be achieved using a suitable machine and when combined with the rapid drying and hardening properties enables very large areas to be returned to service quickly.

SUBSTRATE PREPARATION

Substrates should be hard, sound and free from dust, dirt, oil, grease, paint, plaster, laitence or other contaminants which could prove a barrier to adhesion. Heavily contaminated floors may require special treatment and specific advice should be sought.

Generally substrates are best prepared by mechanical methods such as shotblasting, planing or scabbling. The substrate should be vacuum cleaned prior to application of primer. Indoor and floor slab temperatures should exceed +6°C with a relative humidity not exceeding 95%.

PRIMING

Substrate priming should be carried out using **Epoxy Primer** blinded with 8/16's grade sand or by two coats of **Tarmac Concrete Primer A**. Particularly porous or absorbent substrates require an additional primer coat. **Tarmac Concrete Primer A** should not be applied to substrates with a temperature of less than 6°C. Coverage depends upon the porosity of the substrate and the amount of primer dilution but is approximately 0.3 litres/m².

MIXING AND LAYING

When mixing and laying by hand a nominally 25kg bag of **Tarmac Tuf-Top** will require addition of approximately 5 litres of clean, cool water.

Application by use of a suitable mixer pump will require the regular checking of the material flow to ensure that the correct consistency of material is being achieved.

DRYING

Setting and hardening times will be shortened at high temperatures and extended at low temperatures but generally **Tarmac Tuf-Top** will be dry enough to withstand foot traffic after 2 to 4 hours at 20°C.

Cementitious Systems

At 20mm thickness at this temperature the floor will be ready to receive floor coverings after 24 hours although the relative humidity of the **Tarmac Tuf-Top** and substrate should be checked before the application of impervious materials.

JOINTS

In accordance with Codes of Practice all isolation joints, construction joints, columns and the like should be isolated to allow both the substrate slab and topping to move freely relative to the fixed part of the building.

Therefore all isolation and construction joints should be made conformable through the topping by disc cutting within 24 hours so as to prevent stress induced cracking caused by building or slab movement.

YIELD

For every 1mm thickness 1.7kg of dry powder per square metre will be required, i.e 1 square metre at 10mm thickness will require 17kg of dry powder. Where greater thicknesses than 15mm are required, economies may be achieved by using **Tarmac Tuf-Base** as a base material.

TYPICAL PERFORMANCE

Fresh Properties:

- Pot Life 20 – 30 mins (temperature dependant)
- Flow Ring Values: 210 - 240mm (65mm Ø, 40mm High Flow Ring)
- Zero Plastic Shrinkage
- Vicat Initial Set Time 60 – 80 mins (temperature dependant).

Hardened Properties:

Compressive Strength N/mm² (air cured at 20°C)

1 day	- 34.0)
7 day	- 41.5) EN196
28 days	- 58.5) Mortar Prisms

Flexural Strength N/mm²

7 days	- 6.0) EN196
28 days	- 8.0) Mortar Prisms

Controlled Expansion

7 days	0.02%)
28 days	0.025%) ASTM C490

PACKAGING & STORAGE

Tarmac Tuf-Top is available in nominal 25kg sacks, palletised and shrink wrapped. **Tarmac Tuf-Top** may also be available Intermediate Bulk Containers.

Palletised Tarmac Tuf-Top should be stored in cool dry areas clear of the ground sheeted, or under cover and stacked not more than 2 pallets high.

The product should be used on a first in – first out basis.

Shelf life is minimum 3 months when properly stored and could be in excess of 6 months subject to temperature and humidity.

HEALTH & SAFETY

See separate data sheet reference 80/A.

QUALITY CONTROL

Factory blended, tested and packaged in the UK for Adomast Ltd to quality control procedure in accordance with BS EN ISO 9001 Series.