



FORMCEM

Cementitious Systems

TARMAC TUF-BASE

DESCRIPTION

Tarmac Tuf-Base is a free flowing, protein free, self-smoothing industrial flooring underlayment system, which is obtained by mixing water with a selected pre-blended formulation utilising high quality raw materials.

USES

Tarmac Tuf-Base has been designed as an underlayment to complement **Tarmac Tuf-Top** and provides an economic means of raising and smoothing industrial floors. The product is suitable for application thicknesses from 7mm to 60mm.

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 may require an additional primer coat. **Tarmac Concrete Primer A** should not be applied to substrates with a temperature of less than 6°C.

MIXING AND LAYING

When mixing and laying by hand a nominally 25kg bag of **Tarmac Tuf-Base** 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-Base** will be dry enough to withstand foot traffic after 2 to 4 hours at 20°C. At 20mm thickness at this temperature the floor will be ready to receive **Tarmac Tuf-Top** after 24 hours although the relative humidity of the **Tarmac Tuf-Base** and substrate should be checked.

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.

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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.

TYPICAL PERFORMANCE

Fresh Properties:

- Pot Life 30 – 35 mins (temperature dependant)
- Flow Ring Values: 210 - 240mm (65mm Ø, 40mm High Flow Ring)
- Zero Plastic Shrinkage

Hardened Properties:

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

1 day	- 28.0)
7 day	- 34.5) EN196
28 days	- 40.0) Mortar Prisms

Flexural Strength N/mm²

7 day	- 4.0) EN196
28 days	- 6.5) Mortar Prisms

Controlled Expansion

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

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

Shelf life is minimum 3 months when properly stored but 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.

PACKAGING & STORAGE

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

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

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