Tarmac
BUILDING PRODUCTS

Uniclass
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pozament®

Product Data Sheet

HI-FLOW TUF-TOP

FLOORING SCREEDS AND UNDERLAYMENTS

Description

Hi-Flow 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

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

When laid at thicknesses from 6mm to 20mm **Hi-Flow 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. **Hi-Flow Tuf-Top** can be used down to 0.5mm as a flooring underlayment. **Hi-Flow 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 1000m^2 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.

Sub-Floor 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 ºC 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 **Acrylic Primer.** Particularly porous or absorbent substrates may require additional coats of primer which should be applied to a point where it starts to sit on the surface without it being absorbed. **Acrylic Primer** 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/m^2.

Mixing and Laying

When mixing and laying by hand a nominally 25kg bag of **Hi-Flow Tuf-Top** will require addition of approximately 6 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.

Installation

Levelling work is best carried out at room temperatures between 15ºC and 25ºC and less than 75% relative air humidity. The minimum temperature at which the product should be laid is 6ºC with a maximum of 30ºC. Indoor and floor temperatures should exceed 6ºC for one week after the application. The relative humidity of the concrete floor must not exceed 95%.

Drying

Setting and hardening times will be shortened at high temperatures and extended at low temperatures but generally **Hi-Flow Tuf-Top** 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 floor coverings after 24 hours although the relative humidity of the **Hi-Flow Tuf-Top** and substrate should be checked before the application of impervious materials.

Joints

The screed should be separated from all walls, columns and other upstands by a strip of compressible foam material. The minimum thickness of foam should be 5 mm, with thicker foam recommended in large area pours.

Standards

The installation should be in accordance with the relevant sections of the Codes of practice BS 8203, BS 8204 and BS 5325.

Yield

For every 1mm thickness 1.62kg of dry powder per square metre will be required, i.e. 1 square metre at 10mm thickness will require 16.2kg of dry powder. Where greater thicknesses than 15mm are required, economies may be achieved by using **Hi-Flow Tuf-Base** as a base material.

Quality Control

All Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

Packaging and Storage

Hi-Flow Tuf-Top is available in nominal 25kg sacks, palletised and shrink wrapped. **Hi-Flow Tuf-Top** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

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

Typical Performance

Fresh Properties :			
Pot Life:		25 – 30 mins(temperature dependant)	
Flow Ring Values:		250 - 265mm (65mm Ø, 40mm High Flow Ring)	
Zero Plastic Shrinkage			
Vicat Initial Set Time:		60 – 80 mins (temperature dependant)	
Hardened Properties: Compressive and Flexural Strength N/mm^2 (air cured at 20^{o}C) EN 196 Mortar Prisms			
Compressive		**Flexural**	
1 day	15.0	1 days	4.0
7 days	24.0	7 days	6.0
28 days	32.0	28 days	9.0
Controlled Expansion ASTM C490	7 days 0.015%	28 days 0.025%	
Wear Resistance: AR 0,5 (EN13892-4)			

Information, prices & ordering

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: **08444 630046** Fax: **08443 099703**
Email: **pozament@tarmac.co.uk**
Visit our website: **www.pozament.co.uk**

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Health & Safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement. Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children

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