CG FLOORING SYSTEMS LTD
Specialists in Industrial Flooring

Fastraz®

PUMP-APPLIED FAST-TRACK TERRAZZO SYSTEM

PRODUCT DESCRIPTION

Fastraz® is a revolutionary, advanced, highly durable, polymer-modified, cementitious, pump-applied, self-smoothing terrazzo floor installation system, providing an extremely hard-wearing finish. **Fastraz®** is non-hazardous and possesses a low odour.
After sealing and polishing, **Fastraz®** gives an attractive, long lasting decorative surface finish.
Fast track application methods combined with rapid curing enable the total terrazzo floor installation to take place over a relatively few days.

USES

Use **Fastraz®** as a practical, fast-track and highly cost effective alternative to the traditional methods of achieving a decorative terrazzo floor finish.

SPECIAL PROPERTIES

- Fast track installation
- Medium to Heavy duty
- Provides decorative surface finish
- Pump-applied
- Self smoothing
- Fast setting, allows early access
- Rapid strength gain
- Large area application
- Minimal jointing

METHOD OF USE

Substrate Preparation

The concrete substrate should be free from oil, grease or other contamination and lightly textured. Any loosely bonded material and dust must be removed. Expansion joints, large potholes and other damage to the floor should be repaired with **CG FLOORING SYSTEMS LTD** repair mortar. All movement joints must be located, re-sawn and filled with a suitable semi-rigid jointing compound after the **Fastraz®** has been applied. Tied joins and stable cracks should be thoroughly cleaned out (sawn with a 5mm cut if necessary) and filled with **CG FLOORING SYSTEMS LTD** grout. If captive blasting is required to texture the substrate, this should be carried out ***after*** repairs and joint preparation to ensure a good key.
The relative humidity of the concrete substrate should not exceed 75% at time of application.
Prime the surface with a minimum of two coats of **CG FLOORING SYSTEMS LTD Fastraz®** substrate primer – **FastPrime-P** diluted 1 part primer to 3 parts water.
For open textured or very porous substrates the first coat of primer may be diluted 1 part primer to 5 parts water to enhance penetration into the substrate.
The **FastPrime-P** should be applied by a soft broom allowing the first coat to dry before the application of the second coat. Coverage will vary depending upon the porosity of the substrate.
The second coat of **FastPrime-P** should be touch-dry before the application of the **Fastraz®.**
For non-concrete substrates, use **FastPrime-N**.
For tiled/special substrates, use **FastPrime-E.**

Application

Fastraz® must be pumped using a **CG FLOORING SYSTEMS LTD** special screed pump. The water flow rate should be adjusted to achieve the required consistency (See Technical Data below). After placing, spread to the required thickness using a pin trowel. Entrapped air and residual trowel marks should be removed by use of an appropriate type of spiked roller.
Under no circumstances should the recommended water level be exceeded.
The minimum application, priming and curing temperature is 5°C. However, best results will be obtained at temperatures of between 10°C and 25°C. For temperatures outside of this range please contact **CG FLOORING SYSTEMS LTD**.

Aggregate Application and Distribution

As soon as sufficient area of **Fastraz®** has been laid, aggregate distribution must commence. As this process is a manual operation, every effort must be made to ensure variations in aggregate distribution are kept to a minimum. Variations are inevitable and should be accepted as a characteristic of the system.

Grinding and Polishing

Once the **Fastraz®** has cured, min.24 hours, the surface must be ground / polished using a **CG FLOORING SYSTEMS LTD** vacuum enhanced grinding machine.

Sealing

Fastraz® must always be sealed with **CG FLOORING SYSTEMS LTD Fastraz®** surface sealer – **FastSeal** immediately after grinding and polishing is completed. The sealer should be spray applied at a rate of 10-15m^2 per litre and back rolled with a medium or short pile roller, to avoid the formation of pools. Once the first coat has dried, a second coat of sealer must be applied.
Rollers should be cleared of loose fibres before use as these may adhere to the floor. Both **Fastraz®** and **FastSeal** should be cleaned from all tools with water before the material hardens.

(*See next page for Technical Data*)

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TECHNICAL DATA

Packaging:
FastPrime-P: 5 &10 kg packs.
Fastraz® Powder**:** 25 kg bags.
FastSeal: 25 Litre Drums

FastPrime-P Ratio:
Normal Substrates:
First coat diluted 1 part to 3 parts water.
Second coat diluted 1 part to 3 parts water.
(2 coat system).
Porous Substrates:
First coat diluted 1 part to 5 parts water.
Second coat diluted 1 part to 3 parts water.
(2 coat system).

FastPrime-P 1.07 kg/ltr.

Coverage:
FastPrime-P : 0.13 kg /m^2 /per coat diluted 1 part primer to 3 parts water
0.15 kg/m^2/per coat diluted 1 part primer to 5 parts water.

Fastraz®: (dry powder wt.) 1.74 kg/m²/mm Minimum 7mm thickness.

FastSeal : 10-15m² / Litre per coat. (2 coat system)

Yield: 15 litres per 25kg bag using 4.5 litres of water.

Flow: Tested using a BS 6463 Flow Mould @ 20°C
Target : 170 mm
[The flow mould should be placed on a flat, level surface and filled to the top with the screed material. The material should then be released by carefully lifting the flow mould from the surface. Once the material has stopped moving the diameter of the **Fastraz®** should be measured.]

Mixing Ratio: One 25kg bag of **Fastraz®** powder should be added to 4.5 litres of clean water.

Colour : Please contact CG FLOORING SYSTEMS LTD.

Wet Density: Approx. 2100 kg/m³.

Minimum depth: 7 mm.

Maximum depth: 15 mm. For applications over 15mm, please contact CG FLOORING SYSTEMS LTD.

Pot life: 25 minutes @ 20°C. This figure will be affected by variations in temperature.

Final Set: 3-4 hours @ 20°C. This figure will be affected by variations in temperature.

Compressive Strength: Tested to BS 6319:Part 2:1983
>40 N/mm² @ 28 days

Flexural Strength: Tested to BS 6319:Part 3:1990
> 10.0 N/mm² @ 28 days

Shrinkage: Tested to ASTM C490-00a
<550 µm/m @ 28 days

Bond Strength: > 1.5 N/mm^2
(to primed concrete)

Abrasion Resistance: Conforms to BS 8204:Part 2:1999
'AR1' Class

Impact Resistance: Tested to BS 8204:Part 1:1999
< 1.2mm – Category A.

Slip Resistance: Tested to BS 8204:Part 2:1999
Polished Surface: > 50 (dry), > 35 (wet)

Storage: months maximum when stored in cool, dry conditions in original, unopened containers.

Safety: **Fastraz®** contains cement and is thus alkaline in contact with water. Prolonged exposure to the skin should be avoided. For more detailed information reference should be made to the **Fastraz®** Health & Safety Data Sheet.

SPECIFICATION CLAUSE

The prepared concrete substrate shall be primed with 2 coats of CG FLOORING SYSTEMS LTD **Fastraz®** Primer – **FastPrime-P,** diluted 1 part primer to 3 or 5 parts with water (5 parts for porous substrates – 1st coat only) and CG FLOORING SYSTEMS LTD **Fastraz®** cementitious self-smoothing terrazzo system shall be pump applied when the 2nd coat of primer is touch dry. (*See note 1 below*). Once cured, min. 24 hrs, the **Fastraz®** shall be ground, polished then sealed with 2 coats of CG FLOORING SYSTEMS LTD **Fastraz®** Surface Sealer - **FastSeal.**
The **Fastraz®** compound shall be highly fluid, fast-setting and shall have a compressive strength of >40 N/mm^2 and flexural strength of >10.0 N/mm^2 at 28 days.
The manufacturer shall be a Registered Firm to ISO 9001.
Fastraz® terrazzo system shall only be laid by CG FLOORING SYSTEMS LTD approved specialist flooring contractors, strictly in accordance with the current product Technical Data Sheet and Method of Use.

Note 1: Permitted thickness range for CG FLOORING SYSTEMS LTD **Fastraz®** terrazzo system, is from 7mm to 15mm.