

PRODUCT DATA SHEET

weberfloor 810

(Formerly known as E.MIX FLOWMENT COLOUR 810)

Different colours available, self-levelling, rapid hardening, cementitious flooring system for light-weight traffic, domestic and commercial use

PRODUCT

weberfloor 810 is a machine or hand applied self-levelling floor surfacing system. It is formulated from special light colour cement and supplementary binders, together with pigment, that provide different colours to choose from. **weberfloor 810** contains inorganic pigment which allows long-lasting colour. It is designed as a smooth overlayment for use on concrete floor for light-weight traffic. Express setting time enables short waiting period. Under normal conditions, access onto the floor is available after 2 – 3 hours. Provided that the substrate is suitably dry, the final flooring can be laid after 24 hours (for a 10 mm layer). It is supplied as a pre-blended, dry powder designed for application at thickness between 4 – 10 mm in one operation. Normal application thickness is 6 – 10 mm. **weberfloor 810** does not contain casein or other protein bearing additives, making it particularly suitable for use in hospitals, food preparation areas and storage areas.

Uses

Colour flooring with rapid hardening which finishing can be applied within 24 hours
Residential and commercial flooring
Hospitals, schools, sports stadium and theatres, etc.
Smooth overlayment for light-weight traffic

Features and Benefits

High Quality Product

Formulated to comply with European Norm, British Standard and Chinese Standard
Different colours available, long-lasting colour
Rapid hardening : finishing can be applied within 24 hours and available for foot traffic after 2 hours
Excellent abrasion resistance
Very low shrinkage and fibre reinforcement to prevent cracking

High compressive strength

Water resistance : can be exposed to water spillage without damage
Chemical resistance : similar to dense concrete

Easy Application

Single component : fixed mixing proportion, ensure the quality of work
Suitable for both hand and machine applications
Fast application : up to 300 m² per hour
Can apply paint, epoxy coating, vinyl sheet, carpet and tiling directly

Environmentally Friendly

Low pH : less aggressive to floor finishing
Casein free : environmentally friendly
Should be applied on primed floor (with **weberfloor primer**)

TECHNICAL DATA

Colour	Custom (grey, red, beige, green, blue, etc.)
Component	Portland cement, fast setting cement, non-reactive aggregate, graded sand other chemical additives
Max. aggregate size	0.5 mm
Water demand	Approx. 20 – 22% (5 – 5.5 L/25 KG bag)
Density	1.3 kg/L (dry) 2.0 kg/L (wet) for 21% water demand
pH value	Approx. 11
Thickness	4 – 10 mm
Time for foot traffic	2 hours
Coverage	Approx. 1.7 kg/m ² /mm
Theoretical consumption	Approx. 10.2 kg/m ² for thickness of 6 mm Approx. 2.5 m ² / 25 kg bag for thickness of 6 mm

PHYSICAL PROPERTIES

Adhesion to concrete	EN 13892-8, JC/T 985	≥ 1.5 N/mm ²
Compressive strength	EN 13892-2, JC/T 985	1 day: > 15 N/mm ² 3 days: > 18 N/mm ² 7 days: > 23 N/mm ² 28 days: > 30 N/mm ²
Flexural strength	EN 13892-2, JC/T 985	> 8 N/mm ²
Abrasion resistance	Rolling Wheel Abrasion: EN 13892-7 (In-house)	RWA 20
Flow ring test	EN 13813, SS 92 35 19	> 130 mm
Free shrinkage	EN 13454-2	0.03 – 0.05%
pH value	EN 12859	10 - 11

Unless specified, all technical data are average values and refer to 28 days curing time.

Above physical data are taken on laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond manufacturer control.

Complied Standard

British Standard : BS 6319 : Part 2 : 1983
European Norm : EN 13813 : 2002, EN 12859
Chinese Standard : JC/T 985 : 2005 Class CT-C30F8

PROCEDURE

Substrate Preparations

The concrete substrate must be hard, sound and free from surface contamination.

All dust and contaminants should be vacuum-cleaned prior to installation.

Contraction joints, construction joints and cracks in the substrate which may be subject to movement after installation of **weberfloor 810** must be maintained as joints in the new surface.

Mixing and Installation

Substrate should be firstly primed by brushing diluted weberfloor primer. For the first coat, weberfloor primer diluted with clean water at a ratio of 1:5 should be applied. Allow the first coat to become tacky and dry before applying the second coat. For the second coat, weberfloor primer diluted with clean water at a ratio of 1:3 should be applied. Wait for the second coat to become tacky and dry before applying weberfloor 810.

- Hand application: Mix a bag of dry-mixed powder (25 KG) with 20 – 22% (5 – 5.5 L) water by using an electrical mixer for 3 – 4 minutes.
- Apply weberfloor 810 on primed substrate and under working condition above +10 °C. For continuous application, adequate mixing of material is necessary. weberfloor 810 can be applied by a trowel or steel spatula.
- Machine application: Adjust the flow rate of the machine until a smooth and homogenous mixture is obtained without segregation. A flow ring with volume of 35 cm³ can be applied to check the spreading of mixture, whose diameter should be equal or greater than 130 mm.
- weberfloor 810 is pumped onto the surface through the discharge hose, which is moved across the substrate surface at a constant pace for screed with uniform thickness. The required thickness must be achieved in one operation. The best performance can be achieved when pouring and levelling are done in a continuous process.
- The freshly applied material can be gently trowelled with a steel spatula to dissipate lines left by the hose. The semihardened material may be formed easily or cut for any necessary adjustments.
- weberfloor 810 must be applied to substrates under working condition above +10°C.
- Finishings such as epoxy coating, vinyl sheets and carpet can be applied 24 hours after curing. Please refer to our method statement for procedures in details.

Curing

The relative humidity of the surrounding air should be below 70%. Good ventilation to speed up the **weberfloor primer** drying is recommended.

STORAGE AND PACKING

weberfloor 810 is delivered in 25 kg bag. Storage life is 6 months if the product is kept in a dry place.

HEALTH AND SAFETY

Recommend to wear NIOSH approved or equivalent particulate face mask when mixing the material.

Material contains cement, which may produce an allergic effect.

Material may cause irritation to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Keep out of reach of children.

Please refer to Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

* Note: The information and physical data in this catalogue is given to the best of our knowledge under standard testing method and controlled environment. The results may vary with different weather / site conditions, workmanship or substrates. This is beyond our control that we shall not be liable for any faults or consequences arising or associated with this. We suggest comprehensive tests to be conducted before final application. Unless specified, all technical data are average values with curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.