

CEMFLOW EPOXY CEMENT SELF-LEVELLING FLOORING

**EXCELLENT FLOOR LEVELLER FOR
OVERNIGHT RECOATING
HIGH EARLY STRENGTH FOR REPAIRING
DAMAGED CONCRETE
EXTREMELY DENSE FOR DAMP PROOFING
AND HYGIENE CONTROL
EXCELLENT ADHESION TO DAMP CONCRETE**

PRINCIPAL USES

Screed toppings requiring early strength and water resistance for factories, warehouses, cellars, dairies, kitchens and many other problem areas where most thin film cementitious layers fail. Can be overcoated with epoxy systems after 16 hours.

RESISTANCE

Weather: Excellent resistance, may chalk.

Acids, Alkalies & Solvents: This product is resistant to bases, most salts, and most solvents. Not recommended for areas subjected to strong acids (below pH4). The best indication for resistance is obtained when a test patch of material is placed and evaluated under site conditions. Exposure to intermittent contact, as encountered in secondary containment, may be acceptable.

SPECIFICATION

Onto the prepared substrate, apply Pro-Struct 723 Cemflow to level the surface then overcoat in accordance with the Manufacturers detailed instructions.

PERFORMANCE INFORMATION TYPICAL PHYSICAL PROPERTIES

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>
Plastic Shrinkage	ASTM C827	0.00%
Compressive Strength	ASTM C109	16 Hours – 26.0MPa 7 Days – 35.0MPa
Tensile Bond Strength	ASTM D638	Substrate failure
Flow	ASTM C230	Greater than 250mm
Permeability Index for 3mm		Less than 3,7

(For specific test, contact Technical Department)

See also Instructions "Handling of Epoxy Products"

TYPICAL PROPERTIES AT 25°C

Finish	Smooth dense surface
Colour	Non uniform cementitious grey. Coat with Pro-Struct 681 Water-based Epoxy system or Pro-Struct 723 Solvent-free Epoxy system
Consistency	Flowable
Density	Mixed 1,9-2,0kg/litre
Theoretical Coverage	3,2m ² /8 litre at 2,5mm thick
No. of Components	3
Mix Ratio by Volume	Mix complete kit. Do not split kit
Pot Life	10-15 Minutes
Apply Over	Damp concrete or wet Pro-Struct 726 Cemflow Resin
Apply By	Notched trowel, gauge spreader and spiked roller to achieve wet film of 2-3mm
Curing	16 Hours – overcoat 2 Hours – light traffic 7 Days – full cure
Cleaner	Water
Shelf Life	Dry sealed containers – 6 months

June 08 SA replaces June 06 SA

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APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

DIRECTIONS FOR USE

SURFACE PREPARATION

Substrates to be free of contaminants, laitance, oils, waxes and curing compounds, and are to be structurally sound. Mechanically roughen smooth surfaces to expose the coarse aggregates of the concrete to ensure good bonding. Clean thoroughly with liberal quantities of water, leaving surface damp.

PRIMING

Sound surfaces with main aggregate exposed in concrete need not be primed, but should be saturated with water to flush clean. Prior to application, all standing water to be removed and the product applied into damp concrete. Porous or suspect surfaces which may be exposed to impact and high traffic are to be primed with the neat Pro-Struct 726 Resin and Cemflow applied onto the wet primer.

MIXING

Under a mechanical slow speed impeller in a suitable mixing container, premix the base and activator for 2 minutes. Into the vortex, slowly add the powder component ensuring not to aerate. Mix for approximately 3 minutes until a dense lump free flowing consistency is reached.

PLACING

Onto the damp substrate or wet primer, pour the mixture in a line, spreading with a notch trowel or a set thickness gauge spreader, to obtain an even level surface. Immediately spike roll to deaerate and assist levelling, ensuring a uniform thickness. Continue mixing and applying material without allowing a set edge to develop, until an expansion joint or accepted finish line is reached. Recut expansion joints when set.

CURING

The product is self-curing but must be protected from freezing, rain, wind, direct sunlight, hydrostatic pressure and rapid drying for 24 hours. Curing is dependant on the substrate temperature. At 20°C the system will reach satisfactory cure for overcoating after 16 hours. Mechanical strength needs to be checked after 24 hours if the temperatures are below 20°C. Do not apply material onto substrates which are above 30°C as rapid loss of water in the product will cause debonding. If in doubt about the curing condition, apply a test sample prior to installation. Full performance properties are obtained after 7 days of curing at 20°C.

COATING

Material is a non uniform grey colour and can be coated by preparing surfaces, priming and coating with Pro-Struct 681 Water-based Epoxy system, or Pro-Struct 723 Solvent-free Epoxy system.

Note: Reference should be made to Pro-Struct's Technical Data Sheets on the correct use of their products and the necessary safety precautions required before application is undertaken.

CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS. KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NONFERROUS TOOLS AND TO WEAR CONDUCTIVE AND NONSPARKING SHOES.



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