

## TEMAFLOOR P300 TWO COMPONENT SOLVENT FREE EPOXY COATING

**For new and old concrete floors exposed to heavy mechanical and chemical stress in industrial & storage facilities, repair shops, and frequently used assembly and corridor areas.**



McConnells **Temafloor P300** is a 100% solids two component epoxy coating which is recommended for indoor application in garages, workshops, showrooms, corridors, and indoor car parks. It is used essentially for floors exposed to heavy mechanical and chemical stress. One coating is suggested over a suitable primer coating at an application of 2-3 square metres per litre.

**Temafloor P300** can be applied by an individual with floor painting experience with due compliance to application instructions and due care and attention.

- High gloss finish & self levelling.
- Good resistance to abrasion.
- Withstands water, oil, greases, chemicals & dilute solutions or non-oxidising acids, alkali & salt solutions.
- Only temporary resistance to splashes of oxidising acids & bleaching chemicals.
- Will withstand up to 70 °C dry heat & up to 60 °C in immersion. Not resistant to abrupt or repeated changes of temperature
- For floors which may be subject to movement, e.g. Plant rooms, a special TEMAFLOOR FLEX hardener is available. Contact McConnells for more details & specification.

Colours: P300STD is available in 5 lts tins as standard RED (TVT 0284K3), & standard GREY (TVT 0429K6).

P300SC is available in 12.5lt tins in a selection of BS and RAL colours.

### Packing

P300STD is supplied as 3.6lts base and .9lts hardener.

P300SC is supplied as 10lts and colourant plus 2.5lts hardener.

The mixing ratio is 4 parts of Base by volume to 1 part hardener.

If using the flex hardener the ratio is 2 parts of Base by volume to 1 part FLEX hardener.

### Ambient conditions for application

Dry conditions

Minimum Temperature, Ambient air, Surface and Coating: minimum 15°C.

Relative humidity: Max. 80%

Do not apply if the air temperature is below 15°C.

### Preparation of surfaces

Surfaces to be painted should be clean, dry, and free of dust, dirt, grease and any loose material, free from ascending humidity and with good coherent strength. (Minimum tensile strength 6kgs/cm<sup>2</sup>). The relative humidity of the concrete should not exceed 97%.

### New Concrete Floors

When cleaned and dry, remove any loose material and remove remaining dust carefully with a vacuum cleaner. Allow the floor to dry thoroughly.

### Old Concrete Floors

Remove all grease, oil, chemicals & other impurities with detergent. Remove old peeling paint layers by power grinding or by vacuum grit blasting. Clean out cavities and remove all friable materials. Remove all loose materials and dust carefully with a vacuum cleaner.

**Prime the Concrete depending on porosity as set out below:**

### Priming for power floated Concrete

Prime only using **Fortaprime A250** special adhesion primer. Mix as per instructions and pour the primer onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat the priming to get a non-porous surface as a porous surface will result in holes and air bubbles in the finished surface.

### Priming for Concrete which has not been power floated.

Prime only using Hempel 45141 epoxy primer. Mix as per instructions and pour the primer onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat the priming to get a non-porous surface as a porous surface will result in holes and air bubbles in the finished surface.

### Patching

Patch pot-holes with **Temafloor P300** and dry clean sand mixed 1 part by volume epoxy mix and 1-2 parts by volume sand grain size 0.1-0.6mm. Grind patched areas before overcoating with **Temafloor P300**. Alternatively use **Colofill Epoxy Putty**.

Never apply **Temafloor P300** over a softer coating or substrate. All defective or poorly bonded coatings must be removed.

**A small area should always be tested to ensure adhesion and compatibility.**

### Preparation of Base and hardener mix.

Do not thin **Temafloor P300**. Mix the correct proportions of Base and hardener by stirring, preferably at low speed with a hand drill with a paddle for at least 2 minutes in a clean container. Thorough mixing is essential. Insufficient mixing or an incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the coating and risk the success of the application. Pot life at 23 °C is approx. 20-30 minutes on the substrate, and approx 15 minutes in the mixing container. (Only mix as much material as can be used in the specified working time. Do not attempt to use time expired mixed material as application beyond the Pot life may result in reduced adhesion and performance.)



**International Coatings Limited**  
The Enterprise Centre, Ballycorus,  
Kiltarnan, Dublin 18.  
Tel: 01 2822877 Fax: 01 2822653

### Application

Apply the coating over the primed concrete by pouring the mix onto the floor and spread it out with a serrated steel trowel or a trowel. Level with a medium pile roller. Ensure that a complete cover is obtained. The recommended film thickness is 0.3 to 0.5mm film thickness.

### Drying details

Dust dry: 6 hours.

Suitable for light trucking: after 16 hours.

Recoatable: 24 hours if temperature is >10 °C, otherwise 48 hours.

Fully hard: 7 days

Using FLEX hardener curing times are extended.

At temperatures below 23 °C, the curing process will take more time.

(Assuming temperatures of 23°C and relative humidity 50%).

### Recommended Coverage

#### On Smooth surfaces

One coat: 3m<sup>2</sup> per kg (0.3mm thickness)

#### On Rough surfaces

One coat: 2m<sup>2</sup> per kg (0.5mm thickness)

In practice coverage will depend on factors such as porosity and roughness, application method, etc.

### Storage

Store in dry, cool, conditions, away from direct sunlight at temperatures between 7<sup>o</sup> and 35<sup>o</sup>C. Protect from frost.

### Shelf Life

At least 24 months in correctly sealed container, in a cool, dry and frost-free location.

### Cleaning Tools and Equipment

Always remove as much as possible from the application equipment before washing. Do not empty **TEMAFLOOR P300** into drains or water courses.

Equipment may be cleaned with **FORTACLEAN A214** before the **TEMAFLOOR P300** has dried.

Empty containers are non-hazardous, but should be disposed of in accordance with local and national regulations. Most local authorities have facilities for disposal of paint/coating waste and used containers.

### General Maintenance

General cleaning and cleaning of equipment should be carried out with **FORTACLEAN A214** prior to curing.

### Ordering

All of our products are available direct from McConnells and are sold subject to the Company's Standard Conditions of Sale. The Company and its employees are often asked on potential uses of McConnell's products in addition to those described in the Company's data sheets. Whilst in such cases the Company and its representatives will always try to offer helpful and constructive advice, the Company cannot be held responsible for the results of such uses unless they are specifically confirmed in writing by McConnells. The Customer/User must always test our product in their particular application to satisfy themselves that their requirement is fulfilled before proceeding with their project.

### Safety

**TEMAFLOOR P300** and hardener are classed as hazardous for supply or for transport. Please refer to the Hazards Identification section on the product Material Safety Data Sheets.

#### VOC content

VOC 2004/42/EC (CAT A/j) 500g/l (2007), 500g/l (2010).

**TEMAFLOOR P300:** maximum VOC < 500 g/l.

Consult our Safety Data Sheet and safety information on the container which should be observed.



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