



## 5.10

# FAST COAT PU 555

*2-Component, Solvented, aliphatic, Polyurethane based protective coating for concrete & metal.*

### PRODUCT DESCRIPTION

FAST COAT PU 555 is a two-component polyurethane resin system, comprising pigmented base and a hardener, specifically formulated to protect concrete and steel. On mixing of the two components, it yields a chemical resistant protective coating, which cures to a high glossy, ultra dense surface that is easily cleaned and hygienic.

### BENEFITS

- Clear version is also available.
- UV Resistance – Long lasting.
- Impermeable – vapour barrier for low RH areas
- High chemical resistance.
- Superior surface finish.
- Hard surface - Easy to clean.
- Resistant to mould growth & abrasion.

### FIELDS OF APPLICATION

FAST COAT PU 555 is recommended as a protective coating for the interior & exterior areas.

- Clean rooms in pharmaceutical facilities.
- External protection of buildings.
- Dairies & grain silos.
- Pulp and paper plants.
- As a gas and vapour barrier coating to concrete and metal surfaces.
- As protective coating in oil refineries, paper mills, power stations, garages, hospitals, hangars, etc.

UV protection to Epoxy/PU based systems & coatings.

### TECHNICAL INFORMATION

#### TECHNICAL DATA

TYPE	FAST COAT PU 555
Volume Solids	57%
Pot life	120 Minutes at 25°C
	50 Minutes at 40°C
Mixed density	1.22 kg/litre at 25°C
Mixing Ratio, by volume	6(Base) : 1(Hardener)
Touch dry	90 Minutes at 25°C
Recoat able	6 - 8 Hours at 25°C
Final cure	7 Days at 25°C
Adhesive bond strength to concrete (ASTM D 4541)	>2 Mpa (concrete failure)
Abrasion Resi, (ASTM D4060)	< 0.07 mg/cycle, CS10 wheel
Impact resistance (ASTM D2794)	> 5 Joules
UV resistance (ASTM G53)	> 1000 hrs. (90% gloss retention)
DFT (in two coats)	100 microns

### Coverage

Each 4 Litre pack is sufficient to coat approximately 20 - 22 m<sup>2</sup> at 100 microns DFT in two coats. Actual coverage depends on the numbers of coats, surface profile, loss and wastage.

### Packaging

FAST COAT PU 555 is supplied in 4 litre pack consisting of Base and Hardener.



## Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

## Directions for use

### Surface preparation

It is most important to ensure that thorough surface preparation is undertaken prior to application of the FAST COAT PU 555 coating.

### Concrete

Ensure concrete is at least 28 days old and sound. Oil, grease, mould release agent, curing membrane, and such other contaminants must be removed by mild detergent and water, and by thoroughly scrubbing with a soft brush.

If the wall surface is damp or water is seeping out, it is necessary to stop the leakage before coating. For advice on the appropriate method for the site situation, contact PAGEL.

It is important to note that the final finish obtained is entirely dependent on the surface finish of the substrate.

Where a hygienic surface is critical such as in potable water tanks and food industries even out all unevenness such as blowholes, pin holes and other surface defects with M4 EP before application of coating.

### Steel

Remove all previous surface treatments and corrosion products by sand/shot blasting to SA 2½ finish or to bright metal finish. Do not allow long time gap between the surface preparation and the coating to prevent reoxidising of metal before application of FAST COAT PU 555.

## Priming/Basecoat

Priming is not essential for concrete substrate, as FAST COAT PU 555 has low viscosity and can self prime the substrate. For metal substrate use M7 ZR as the primer. In the event of moist concrete substrate, it's advisable to use EPOPERM PRIMER as base coat cum primer with coverage not exceeding 5 m<sup>2</sup>/Kg.

To extend the service life of the coating in harsh environments or in the event of coating subjected to moderate wear and tear, it's advised to use one to two coats of EPOCOAT 111 as the base coat to achieve high performance of the system.

Allow primer or base coat to totally dry before proceeding with the top coating of FAST COAT PU 555.

## Mixing

FAST COAT PU 555 is supplied in two pre-weighed components, Base and Hardener. Properly stir each component separately before mixing together to ensure uniform consistency.

PU-CAOT 555 is supplied in pre-proportioned kits for complete mixing. Combine Hardener and Base component in a suitably sized container. Ensure to scrap the sides of the containers to ensure a complete reaction.

Mix properly for 3 minutes with a slow-speed drill and wing style mixing paddle at 300-400 rpm until a homogeneous colour is achieved. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

## Application

FAST COAT PU 555 can be applied using short nap

roller, shorthaired brushes or by airless spray. Apply in two coats preferably in contrasting



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colours, each at a W.F.T. of 85 to 90 microns, the second coat applied after the first coat has dried (6-8 hours at 25°C) and at right angles to it.

## Airless spray

For application by airless spray, use a pump with nozzle tip of size 0.33 mm to 0.45 mm & more then 2000 psi pressure.

## WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FAST Construction Chemicals ("FAST") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond FAST's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. FAST shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. FAST's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must

be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

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