



**Chem Coats (Pvt) Ltd.**

# ChemCoat 386

**Epoxy sealer / primer and undercoat**

## DESCRIPTION

**ChemCoat 386** is a two-component, filled, solvent-borne polyamide-cured epoxy.

## Uses

Primer / sealer for porous surfaces such as concrete, plaster, fibre, cement and timber. Undercoat for epoxy or polyurethane finishes in multi-coat systems on metals.

## Benefits

- Versatile, filled epoxy primer for epoxies and polyurethanes.
- Epoxy sealer coat.
- Easily applied by brush, short-fibre roller or airless spray.
- Long pot life.



Measuring must be accurate and separate stirrers used for proportioning each component. The mixed material must be left to stand in a cool place for 20 minutes prior to application

## SURFACE PREPARATION

Any surface must be clean, mechanically sound and dry. For porous surfaces, electronic moisture content tests must be conducted prior to application of the priming system. Maximum moisture 4-5% max. (e.g. Proti meter Survey Master or equivalent) or Dynamic Calcium Chloride moisture "weight gain" over 24 hours or a practical overnight "plastic sheet test" is also advisable approx. 1m<sup>2</sup> masked down on surface).

Concrete must be free of laitance, curing membrane and release agents. If blow-holes, and other blemishes, are present, they must be opened up, preferably by abrasive blasting or grinding.

Plaster should be one coat cement plaster, wood float finished and free of trowelling blemishes. The plaster should not be steel float polished.

Putty plaster should not be coated. Fibre cement should be free of all dust and fibre up stands. Timber should be clean and smooth. Wax-free glass fibre laminate should be abraded of surface resin to expose the fibres.

All debris of preparation must be removed before coating commences.

## BONDING / PRIMING

On porous surfaces **ChemCoat 386** is self-priming. On steel surfaces **ChemCoat 386** should be applied over **ChemCoat 384**.

## MIXING

Stir contents of each container, particularly the base, very well. Add the activator to the base and stir together for at least five minutes using a flat paddle.

It has been found that mechanical mixing gives better dispersion than manual mixing. A suitable mixing method would be a slow speed electric drill (approximately 200r/min) fitted with a paddle.

If only part of a kit is to be used, add one volume of activator to three volumes of base.

### PROPERTIES OF WET MATERIAL

Mixing ratio	4 base to 1 activator by volume
Density (typical)	1.42 g/cm <sup>3</sup>
Finish	Glossy
Flash point	17° C
Dilution	<b>ChemCoat thinners no.3</b> but not normally needed
Consistency	low viscosity liquid

### PROPERTIES DURING APPLICATION

Pot life @ 25° C	8 hours / 5 l
Induction period	Allow to stand for 20 minutes in shade after mixing
Volume solids (typical)	50%
Recommended av. dft per coat	37 µm
Theoretical coverage for above dft	13 m <sup>2</sup> / l on smooth surface (less on textured surfaces)
Wet film thickness at above	75 µm
Maximum recommended wft	100 µm
Practical coverage for estimating purposes	7 - 10 m <sup>2</sup> / l (less on porous surfaces)



PROPERTIES DURING APPLICATION	
Drying time @ 25° C	Touch dry 1 - 2 hours Hard dry 12 hours Full cure 7 days
Over coating time @ 25° C	minimum 8 hours maximum 48 hours
Application temperature range	10° C - 40° C
Do NOT apply	If humidity in excess of 85%
Do NOT apply	If surface is less than 2° C above dew point
Fire resistance of wet film	Flammable

## COVERAGE

7 - 10 m<sup>2</sup>/litre on porous surface,  
13 m<sup>2</sup>/litre on smooth surface.

## APPLICATION

**ChemCoat 386** should normally be used as a single coat. Circumstances could arise where two coats might be called for, in which case over coating times must be observed.

**ChemCoat 386** may be applied by brush or airless spray as a first coat or by short-fibre roller if being used as an undercoat. Where airless sprayed, a tip of approximately 350 µm is used.

Where **ChemCoat 386** is used as an undercoat for epoxy or polyurethane enamels and a finish of the highest quality is required, the dry film may be sanded down to remove surface blemishes. All debris should be washed off with **ChemCoat thinners no. 3** before over coating. **ChemCoat 386** should be stirred frequently during use.

**ChemCoat 386** should not be applied if the ambient temperature is below 10°C. The curing reaction will not proceed at low temperature.

If surfaces are not at least 2° C above dew point, there is every chance that a film of condensed moisture may be present. This will interfere with the adhesion of the coating. Wet film thickness should not exceed the recommended figures as solvent entrapment could result. The same condition may be caused if over coating times are shortened. Solvent entrapment in the film can lead to inferior performance.

## CLEANING

**Chem Coats Super brush cleaner** before setting.

## PROTECTION ON COMPLETION

Against traffic and spillage until cured. Most epoxies chalk and degrade in extensive sunlight.

## MODEL SPECIFICATION

The primer/filler coat will be **ChemCoat 386**, a two-component, filled, solvent borne polyamide epoxy resin system, applied in accordance with **Chem Coats Construction Chemicals'** recommendations.

## PACKAGING

**ChemCoat 386** is supplied in 5 l yield metal containers.

## HANDLING & STORAGE

All **ChemCoat 386** related products have a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

## HEALTH & SAFETY

Wet **ChemCoat 386** is toxic and flammable. Ensure working area is well ventilated during application and drying. Avoid flames in vicinity. Avoid inhalation of dust and contact with skin and eyes. Suitable protective clothing, gloves, eye protection and respiratory protective equipment should be worn. The use of barrier creams provides additional skin protection. If contact with skin occurs, wash with water and soap. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

Cured **ChemCoat 386** is inert and harmless.

## IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local **Chem Coat's** representative.

## RANGE OF PRODUCTS

<u>WATERPROOFING SYSTEMS</u> <u>INDUSTRIAL FLOOR SURFACES</u> <u>PROTECTIVE COATINGS</u>	<u>PREPACKED REPAIR MORTARS</u> <u>CEMENTITIOUS &amp; EPOXY GROUTS</u> <u>CONCRETE ADMIXTURES</u>	<u>SEALANTS</u> <u>CRACK INJECTION</u> <u>CONCRETE ADHESIVE</u>
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