

TECHNICAL DATA SHEET
EP300 SOLVENTLESS 2K - EPOXY - PART "A"

PRODUCT DESCRIPTION

EP300 Solventless Epoxy Coating is a durable, heavy duty, two-part epoxy coating designed to provide abrasion and chemical resistance to concrete floors.

It has been especially formulated to provide fast dry and reasonable working time for easy application.

It can be applied at low temperatures (minimum 10 °C) to provide a very hard wearing surface suitable for heavy foot traffic and rubber-tyred vehicles.

EP300 Solventless Epoxy Coating cures to a smooth glossy finish which is easily cleaned and provides an economical and hard wearing surface for a wide range of applications.

It's resistance to a wide variety of chemical spillage and fumes makes it ideal for use in a wide range of industrial environments such as car parks, production areas, vehicle workshops and warehouses

It's main features are excellent wear resistance and excellent chemical resistance, easy application properties and ease of cleaning. It minimizes maintenance costs and is available in white and a range of pastel colours.

GENERAL PROPERTIES

Shelf Life	: PART "A" (COLOR) - 2 years / PART "B" (HARDENER) 12 months - In original sealed containers,
Mixing Proportions by Volume	: 2 parts PART "A" (color) to 1 part PART "B" (Hardener)
Solids Content	: 100 %
Working Time / Pot Life	: approximately 40 minutes @ 25 °C / approximately 90 minutes @ 10 - 15 °C
Tack Free Time	: 4 - 6 hours @ 25 °C / 6 - 10 hours @ 10 - 15 °C
Recoating Time	: 16 hours @ 25°C / approximately 24 hours @ 10 - 15°C
Cure Time (Full chemical / physical)	: 7 - 10 days @ 25°C
Coverage (Theoretical)	: 5 m ² / Litre @ 200 µM film thickness / 1 m ² / Litre @ 1 mm. film thickness
Available Colors	: White, selected range of pastel colors
Abrasion Resistance	: Excellent when fully cured
Temperature Resistance	: Up to 100 °C Dry Heat

RESISTANCE TO CHEMICAL SPILLAGE (CURED 7 DAYS AT 25 °C)

Ammonia Solution (20 %)	Food Emulsion	Sodium Chloride (50 %)
Sulphuric Acid (30 %)	Sulphuric Acid (70 %)	Sodium Hydroxide (50 %)
Deionized Water	Hot Water	Hydrochloric Acid (20 %)
Aviation Fuels	Kerosene	Acetic Acid (10 %)
Petrol	Lactic Acid (10 %)	Toluene
Tannic Acid	Butyl Cellosolve	Xylene
1,1,1 Trichloroethane	Ethanol	Skydrol
Lubricating Oil	10% Sodium Hypochlorite	Fuel Oil
Vegetable Oils	Animal Fats	

Methanol	- destroyed film in 3 - 7 days
Methyl Ethyl Ketone	- destroyed film in 3 - 24 hours
98% Sulphuric Acid	- destroyed film in 3 - 24 hours

Surface staining may result from exposure to some aggressive chemicals.
Good housekeeping practice requires that spills be quickly removed and washed away.

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SURFACE PREPARATION

All surfaces to be coated must be dry, sound, suitably cleaned, degreased and dust free.

CONCRETE

Remove any old paint and all loose material.

Major surface imperfections must be rectified before proceeding any further.

New concrete must be at least 28 days old.

Remove any oil or grease contamination by washing with a suitable surface degreaser. Hose off with high pressure water.

Captive blast clean to expose firmly held aggregate to industrially accepted standards.

Allow to dry before application.

Alternatively, acid etch using a high quality Concrete Etch & Cleaner. Neutralise surface by washing with fresh water and allow to dry.

MIX RATIOS

FOR BRUSH / ROLLER / AIRLESS SPRAY

PART "A" (Paint) 2 parts (by volume)

PART "B" (EP300 Hardener) 1 part (by volume)

Mix thoroughly with a low speed mechanical mixer to ensure maximum uniformity of the mixture.

Do NOT mix any more material than what can be comfortably applied in 30 minutes at ambient temperatures of 25 °C.

Allow the mixed paint to stand for approximately 5 minutes before using to allow any evolved gases and/or entrapped air to escape. Failure to follow this procedure may lead to fine bubbling and/or pinholes in the dried paint film.

If the product viscosity needs to be reduced, add up to 5 % by volume of EP300 Reactive Diluent.

The use of any reducers / thinners / diluents, other than those recommended by the BC Coatings, may interfere with the chemical reaction and adversely affect the curing and subsequent film properties of the coating.

Allow the coating to cure for 7 - 10 days, at an ambient temperature of 25 °C, prior to subjecting to chemical exposure.

Lower ambient temperatures will reduce the cure rate & therefore require longer cure times to obtain maximum cure.

If self-levelling agents, reinforcing additives, fillers, anti-slip additives & etc. are to be used, they must be moisture free and added under mechanical mixing after Part "A" & Part "B" have been mixed together thoroughly.

Using this method ensures that the mix ratios for "A" & "B" are not compromised.

Slip-resistant finishes can also be achieved by broadcasting suitable anti-slip compounds, such as dried graded sand, glass flakes & etc., between coats using a "spread and sprinkle" method.

DRYING TIMES

WORKING TIME / POT LIFE : approximately 40 minutes @ 25 °C / approximately 90 minutes @ 10 - 15 °C

TACK FREE TIME : 4 - 6 hours @ 25 °C / 6 - 10 hours @ 10 - 15 °C

RECOATING TIME : 16 hours @ 25°C / approximately 24 hours @ 10 - 15°C

CURE TIME (FULL CHEMICAL / PHYSICAL) : 7 - 10 days @ 25°C

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RECOATING PROCEDURES

If any more coating needs to be applied, allow the previous coating to dry overnight (16 - 24 hours @ 25°C ambient) before attempting to recoat it.

If the coating is applied at ambient temperatures of 10 - 15 °C allow at least 24 hours before attempting to recoat the product.

If recoating after more than 24 hours (@ 25°C ambient) since the original coat was applied, de-gloss the surface by lightly scuffing with a fine grit abrasive paper and remove all sanding dust & residues.

This will ensure adequate adhesion of the subsequent coats.

EQUIPMENT CLEANUP

Tools and equipment may be cleaned before hardening commences by washing with BC Coatings EP100 Epoxy Thinner. Do not use for cleaning hands or mixing with product.

LIMITATIONS

EP300 Solventless Epoxy Coating should NOT be applied at temperatures below 5 °C

EP300 Solventless Epoxy Coating should not be applied to surfaces known to suffer from rising damp.

EP300 Solventless Epoxy Coating is NOT recommended for application over tiles and is not suitable for use where it is subjected to high concentrations of chicken fat.

For more information contact your BC Coatings representative.

MAINTENANCE

To maintain a good appearance and ensure a long serviceable life it is important that good housekeeping procedures are always maintained.

Cleaning can be done with a mop, brush or auto scrubbing machine.

Use a low residue detergent that is neutral in pH.

NOTE: It is important that manufacturer's instructions on dilutions of cleaning solutions are followed.

STORAGE AND SHELF LIFE

Store in dry conditions between 10 °C and 30 °C, away from sources of heat and naked flames.

Protect from frost.

PACKAGING

EP300 Solventless Epoxy Coating is available in the following pack sizes: -

PART "A" - 4 Lts metal cans & 10 Lts metal pails

PART "B" - 1 Lt, 2 Lts & 5 Lts metal screw top cans

NOTE

The figures quoted for work time, cure time and coverage are not definitive.

They are dependent on job site conditions and will vary accordingly.

In all cases we endeavour to provide typical figures for use as a guide



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HEALTH & SAFETY INFORMATION

The product is hazardous.

A Material Safety Data Sheet is available from BC Coatings upon request or available.

GENERAL

: Freshly mixed material must NOT be added to material which has been in use for some time.

Rate of cure is dependent upon temperature and relative humidity.

Do not apply this product at temperatures below 10 °C or relative relative humidities above 85%.

Ensure maximum recoat interval is not exceeded otherwise surface must be lightly abraded and then dusted to ensure maximum inter-coat adhesion.

Shelf life is normally 12 months in original sealed containers, but depends on storage conditions.

This data sheet is based on information in BC Coatings possession at date of issue.
BC Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.