



TECHNICAL DATA SHEET

PRODUCT : **POLYVINE CONCRETE CLEAR COAT**

PRODUCT DESCRIPTION

Polyvine Concrete Clear Coat is a white homogeneous liquid, which is composed of a water based dispersion of cross-linking polyurethane acrylic copolymer with surfactants, waxes, and rheology modifying agents.

Polyvine Concrete Clear coat is ideal for use on: Brick paving, Old concrete, Garage floors, Concrete paving, Concrete floors, to give a hard clear protective coating with a high degree of chemical and abrasion resistance.

Dries to a satin finish, which is capable of withstanding heavy foot traffic after one days drying and curing, in such areas as Garages, Factories, Repair areas, Driveways, Patios, Warehousing.

SURFACE PREPARATION

Ensure the surface to be coated is cured, clean and free from grease, wax or polish and contamination. All traces of oil should be removed with a proprietary oil remover. Concrete Clear Coat should not be applied over uncured oil base paint as this may cause discoloration.

Older painted concrete, where the paint itself may fail, should be stripped using a hot air gun or a chemical paint stripper, and cleaned prior to coating.

When applied over a porous paint, it is possible that Concrete Clear Coat can draw certain stains through the paint, which were not otherwise visible. In this case a stain sealer should be used.

APPLICATION

Polyvine Concrete Clear Coat can be applied by brush, spray or roller. Porous surfaces should be primed with Concrete Clear Coat diluted with 10% water, prior to applying a further 2 or 3coats. Allow 2 hours in between coats and 24 hours after final coat before full use. Do not use in temperatures below 5degrees C/40degrees F or in very high humidity. Lower temperatures will slow the final cure time.

CAUTION

Care must be taken when applying in high temperatures or in direct sunlight as this will affect drying times. Do not apply when rain is imminent. Apply evenly do not allow to pool. The application of Concrete Clear Coat can draw stains/contaminants to the surface. Always test on a trial area before application

COVERAGE

Up to 20sqm/L per coat depending upon the porosity of the substrate.

CLEAN UP

Any equipment used can be cleaned using soap and water before the clear coat dries. Wipe any excess off surfaces with a damp cloth. Any dried deposits will need a paint stripper to remove them.

DISPERSION PROPERTIES

Appearance Opaque

Polymer type Self crosslinking urethane acrylic

Particle charge Anionic

Total solids content 34 +/- 1%

Brookfield viscosity (RVT 20 rpm, 20°C) < 400-650 mPas

PH 7.5-8.5

Particle size ca. 55 NM

Neutralising agent Triethylamine

Density 1,03 kg/l

RESISTANCE

Resistances to:	Polyvine Concrete Clear coat (pu/ac)	Brand Leader Clear coat Spirit Based	Acrylic Floor Paint
Oil	5	4+	2
Chemicals	5	4+	3
Water	5	3+	3
Detergent	5	5	4
Traffic	5	3	1
Tire marks (16hrs)	5	3	1
Non yellowing	5	3	5
Hardness	5	5	2
Clean up	5	0	5
Time to full cure (50% rh. 20 Degrees C)	16hrs	2days	24hrs

0 = poor. 5 = good.

STAIN RESISTANCE

Stain resistance tests were performed on aluminium Q-panels.

The different staining agents were exposed to the film during two hours. Afterwards the degree of damage was evaluated.

The degree of damage is evaluated according to following classification:

- 0= no effect
- 1= slight effect noticed
- 2= slight defect noticed and discoloration of the film
- 3= severe effect noticed
- 4= severe effect noticed and discoloration of the film
- *= permanent stain after cleaning

	Concrete clear coat
<u>Linseed oil</u>	0
<u>Sodium hydroxide solution 10%</u>	1
<u>Ammonia 12.5 % solution</u>	1*
<u>Hand soap</u>	0
<u>Ethanol 10% solution</u>	0
<u>Acetone</u>	1*
<u>Household cleaner</u>	0
<u>Coffee</u>	0
<u>Coca cola</u>	0

Film properties:

	Concrete clear coat.
Appearance	Clear
Gloss 60°	80
Tack	Non tacky
Adhesion	Good
Defects	None
Scratch resistance	Perfect
Water resistance	Excellent

GREEN CONCRETE

Concrete Clear Coat is formulated for fully cured concrete.

Application to uncured concrete will result in accelerated crosslinking and damage to the film.

Polyvine can provide a water based concrete sealing and curing membrane to use before application of Concrete Clear coat.

FILM PROPERTIES

DRY FILM: Satin

DRYING TIME: approx. 30 minutes @ 20degrees C/70degrees F

CURE TIME: approx. 16 hours @ 20degrees C/70degrees F

HARDNESS: approx. 150 sec Konig hardness

TIRE MARKING : excellent @ 16hours

NON YELLOWING

RESISTANT TO: Water, Oil, Chemical, Detergent, Stains etc.

PACKAGING

25L, 4L and 1L plastic containers

STORAGE

Store in unopened containers in a cool dry place away from direct sunlight.

HEALTH SAFETY AND THE ENVIROMENT

Non-hazardous. Ensure good ventilation. Keep out of reach of children. Contact with eyes-wash immediately with warm water. Remove excess from tools and mixing vessels before washing in warm soapy water. Do not empty containers into drains or watercourses.

The information supplied herein is accurate to the best of our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to assess the suitability of the product on a test area before application

Further information may be obtained from:

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Milky liquid
Odour	-	Mild
PH	-	8.0
Boiling point	-	Approx. 100C (as water)
Flammability and Autoignition temp		N/A
Vapour pressure	-	23 mbar as water
Water solubility	-	Fully miscible
Relative density	-	Approx. 1.03 at 20 C (ISO 8962)

10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

INHALATION - May be irritating to respiratory system

INGESTION - May be harmful if swallowed

SKIN CONTACT- may cause skin irritation

LONG TERM EXPOSURE - No information available

12. ECOLOGICAL INFORMATION

Do not empty into waters and drains.

13. DISPOSAL INFORMATION

Product recommendation: Do not allow into drains or watercourses.

Empty containers are to be disposed according to official rules.

Contaminated packaging recommendation: Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to approved recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. TRANSPORT INFORMATION

This product is not classified hazardous for transportation.

15. REGULATORY INFORMATION

EEC Hazard Classification - None

The product contains only substances, which are on the European Inventory of Existing Chemical Substances (EINECS).

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is based on data provided by sources considered to be reliable. This data is intended to enable safety assessment to be made and should not be construed as guaranteeing specific properties. Users are recommended to consult technical information sheets for advice on specific applications.

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