

DURALAC

3D SOLVENT FREE EPOXY 1231 CLEAR

Description:

DURALAC 3D Epoxy S.f. Coating 1231 Clear is a unique high quality performance two-component Coating based on 100% epoxy resins with Anti-bacterial properties, Solvent free, designed for application where a top coat epoxy is needed, providing a superior resistance against abrasion, chemicals, corrosion, impact, it is a self smoothing ,easy to apply.

Area of Use:

DURALAC 3D Epoxy S.f. Coating 1231 Clear is designed for a wide range of floors as a Top Coat over various levels of 3D paper.

Technical Data:

Generic Type	Amine- Liquid Epoxy	Viscosity @ 25 °C	70 – 80 KU
Reaction Type	Rapid hardening	Flash Point (Seta)	≥85 °C
Volume Solids	100%	Specular – Gloss @ 60°	70 – 80%
Color	Clear	Surface Temperature at Application – Min	10 °C
Theoretical Coverage	1.5 m ² /lit @ 450 µm dft	& Relative Humidity – Max	80%
Film Thickness – Wet	400 – 500 µm	Surface must be dry and at least 5' above the dew point.	
– Dry	400 – 500 µm	Reducer	NA
Dry Time @ 25 °C & 50% RH – To Touch	3 hours	Reduction – Roller	Do not thin
- Dry	8 hours	- Trowel	Do not thin
- Full Curing	7 days	Clean Up Thinner	X275 Thinner
Dries By	Chemical Cure	Mixing Ratio (by volume)	1.6:1
Dry Heat Resistance – Intermittent	200 °C	Working Time @ 25 °C	25 Minutes
Specific Gravity (mixed as recommended)	1,05±0,04	Pot Life @ 25 °C	10 Minutes
Storage Temperature – Min.	5 °C	Volatile Organic Compound (VOC)	
– Max.	35 °C	Unthinned	Grams/Liter 0
Storage Time	2 years from production date		

Surfaces Preparation:

The substrate to be painted should be suitably dry, clean, free from loose material, dust, grease, oil and any other contamination. Treat any areas affected by mould, lichens, algae and moss with fungicidal solution. Confirm that the correct surface preparation and pre-treatment is carried out.

System Information:

Product	Concrete, And coated Surfaces	
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3D PAPER (Various color and Picture)	1	
DURALAC 3D Epoxy S.f. Coating 1231 Clear	1	400 – 500 µm

Stir thoroughly before use. Add all the hardener to the resin in a ratio of 1 part (hardener 1231-1) to 1.6 part (resin 1231) and mix for 2-3 minutes.

Standard packages are in pre-measured kits and should be mixed as supplied. We recommend that the kits not be broken down unless suitable weighing equipment is available.

Allow mixed material to sweat-in for 10 minutes before starting application.

Before top coating, make sure the previous coat has tacked off.

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Repaintings:

For previously epoxy coated surfaces, grind with mechanical fine graded sand paper, wash with etching solution, rinse thoroughly with water to remove all residues. Allow to dry well, then use **DURALAC 3D Epoxy S.f. Coating 1231 Clear**.

Packing:

Available in USG, Component A (resins)= 2,30 liters to Component B (activator)= 1,30 liters.
20 liters Pail, Component A (resins)= 12,5 liters to Component B (activator)= 7,5 liters.

General Information:

- Do not apply when the air or substrate temperatures are likely to fall below 10 °C or when the relative humidity is above 80% during application or the drying period.
- Substrate to be treated must not exceed 5% by weight moisture content.
- Under normal conditions this product will remain usable for up to two years if stored correctly and unopened.
- Store in a cool, dry and ventilated place. Keep container closed when not in use.
- All cited parameters must be considered as guidelines only.

SPECIFIER NOTE: for maximum bond strength steel shot blasting is always the first recommendation, however aesthetics is often a concern of many owners that may view the shot blast path offensive. When specifying thin film coatings, acid etching is often the preferred method of preparation because it does not leave obvious "blast paths" or "track lines." Careful attention shall be given to the use of chemical preparation including but not limited to local regulations regarding disposal of "spent acid."

Performance Standards:

Test	Results	Test	Results
ASTM D 695 Compressive Strength	17,500 psi	Motor Oil	No effect
ASTM D 4060 CS 10 Wheels, 1000gm Load/1000 Cycles	18 g	Urine	No effect
ASTM D 638 Tensile Strength	2,500 psi min	100% Xylene	No effect
ASTM D 790 Flexural Strength	5,900 psi	100% Mineral Spirits	No effect
ASTM D 2240 Shore D Hardness 7 days cure	80	ASTM G 53 Accelerated aging via exposure to fluorescent, ultraviolet and condensation	600 hours – slight change
ASTM D 635 Flamability	Self-extinguishing	ASTM B 117 Salt spray test @ 85 °C	100 hours – No effect
MIL D 3134 Adhesion Strength	2,200 psi		

Health and Safety:

Warning! If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE**

- When preparing or painting all surfaces avoid the inhalation of dust and paint mist.
- Ensure good ventilation and use mask and safety gloves while applying.
- Avoid skin contact, spoiled skin should immediately be washed.
- In case of eye contact, flush with plenty of water and consult a doctor.
- If accidentally swallowed seek medical attention immediately.
- Smoking, eating and drinking must be prohibited in the application area.
- Keep away from food, children and animals.
- Do not empty into sewer, watercourses or access routes to septic tanks.
- **IN CASE OF: FIRE** – Use foam, CO2, dry chemical, or water fog.

SPILL – Absorb with inert material and dispose of in accordance with applicable regulations.

For more information on safety hazards and precautions, please refer to the product MSDS.

FOR PROFESSIONAL USE ONLY

The line manufacturing process is batch checked, ensuring traceability in the event of any incident. The quality system employed includes the actual design of every item and the controls in its fabrication, both of the raw materials used to ensure uniformity of manufacture and the end product obtained.

Disclaimer:

For proper use and correct application of the product, a prior reading of the technical features is indispensable.

The data provided in this technical specifications was obtained to the best of our knowledge under normal laboratory conditions and on standardised bases, and may vary depending on the working conditions. The working conditions of the users are at all times beyond our control, we cannot guarantee anything but the quality of the product itself. The product must not be used for purpose other than those specified.

We have a technical-commercial team at your disposal to help you with any queries.

Due to standards and specification evolution, the company reserves the right to change the given data without prior notification.

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