

Protectakote Universal Epoxy Primer

Protectakote Universal Epoxy Primer is a solvent-based, multipurpose two-component epoxy primer.

PRODUCT USES

Protectakote Universal Epoxy Primer is recommended for use with our range of polyurethane topcoats. It provides a sealed, consolidated and strengthened surface in porous substrates while providing the moisture barrier required by urethanes along with improved adhesion. It is also recommended for use with ferrous metals where it improves adhesion and reduces sub-film corrosion.

COVERAGE

- 6-7 m² per litre per coat. Applied in a 1 coat application at 75 microns for non-porous substrates
- 4-6 m² per litre per coat for porous substrates. Coverage will vary depending on the porosity of the surface.
- Recommended dry film thickness per coat: 75 microns

SURFACE PREPARATION

All surfaces must be sound, dry and free of oils, greases laitance and rust. Proper preparation is critical to ensure an adequate bond. Substrates differ significantly, and so all new applications should be tested first.

- **Steel and galvanised metal:** Sand or dry abrasive blast to a near white metal to obtain a 25 to 50 micron profile.
- **Concrete:** If concrete additives or hardeners have been used, prepare a test patch for an adhesion check. New concrete should be cured for 28 days. Acid etch dense or power floated concrete to open pores and aid penetration. Shot blasting is also recommended. Heavily contaminated concrete should be sanded to remove the top 0.1mm. Concrete that cannot be sufficiently dried should be primed with Duram Duraprime water-based epoxy first.
- **Wood and other porous substrates:** Dry as much as possible first ensuring penetration.

APPLICATION

- Apply by brush, roller or spray.
- Roller type: Short mohair roller as for enamel paints
- Spray: Conventional or airless spray using a 0.013 – 0.017" (0.3 – 0.5mm) nozzle and air pressure of 2000 psi (130 bar)
- Mixing ratio: 3 parts base to 2 parts activator by volume (1.65 base to 1.00 activator by mass)
- Mix separately, then combine and mix well. No induction period is required.
- Substrate Temperature: min: 100C, max: 400C
- Ambient Temperature: min: 100C, max: 400C
- Relative Humidity: min: 30%, max: 85%
- Do not apply when the surface temperature is less than 20C above the dew point.

CLEANING

- Clean with Duram Xylene after use.

COLOURS

- Clear

ADVANTAGES

- Good resistance to weather.
- Clear / transparent.
- Excellent workability.
- High temperature resistance - can withstand up to 95°C when dry.
- Good resistance to a wide variety of acids, alkali's, alcohols and solvents.

IMPORTANT

- 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.

SAFETY PRECAUTIONS

- **As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs.**
- **Treat splashes to eyes and skin immediately.**
- **If accidentally ingested, seek medical attention.**
- **Reseal containers after use.**
- **Use in well ventilated areas and avoid inhalation. Ensure build-up of fumes does not occur.**

TECHNICAL DATA

PACK SIZE	5 litres			
Number of Components:	Two			
Volume solids:	50%			
Recommended D.F.T.:	Min: 40 micrometers, Max: 150 micrometers			
Recommended W.F.T.:	Min: 80 micrometers, Max: 300 micrometers			
Spreading rate:	(Theoretical) 6-7m ² /l at 75 microns D.F.T. at stated volume solids			
Substrate Temperature:	min: 100C, max: 400C			
Ambient Temperature:	min: 100C, max: 400C			
Relative Humidity:	min: 30%, max: 85%			
Weather:	Good (chalks)			
Temperature:	Resistant up to 950C (dry, continuous), 120°C (intermittent, dry) and 60°C (wet).			
Acids:	Resists splash, fumes or spillage of inorganic acids up to 30% concentration.			
Alkali's:	Resists splash and spillage of Ammonia up to 10% and splash, spillage and immersion is other alkali's.			
Alcohols:	Resists splash and spillage of alcohols e.g. Ethanol and Butanol			
Petroleum products:	Resists splash, spillage or intermittent immersion in Paraffin, Jet Fuel, Diesel Oil, Petrol etc			
Solvents:	Not damaged by spillage of aromatic and aliphatic solvents such as Xylene, Mineral Turps and Benzene.			
Water and Salt solutions:	Excellent resistance to spillage and immersion up to 600C.			
Pot life:	6 hours			
Drying Time:	Temperature	Touch Dry	Hard Dry	Over Coating Time
	10°C	7 hours	20 hours	7 hours
	20°C	4 hours	16 hours	4 hours
	40°C	1 hour	4 hours	1 hour

Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase. Updated: Feb 2015 (this supercedes all previous publications)