

# OptiGuard Universal EP

Optima Coatings OptiGuard Universal EP is a solvent-based self-priming polyamide-cured epoxy coating which performs as a durable high build primer or intermediate coat. It is suitable for industrial and marine developments.

**Colours:** Red and Light Grey MO

### PRODUCT USES

- OptiGuard Universal EP is suitable for a variety of substrates and can be applied over inorganic zinc primers. Adheres to a variety of substrates such as steel and galvanized steel.

### ADVANTAGES

- Good resistance to weather.
- Excellent workability.
- High temperature resistance - can withstand up to 95°C when dry.
- Good resistance to a wide variety of acids, alkalis, alcohols and solvents.

### COVERAGE

- Percentage volume solids: 60 %
- Recommended dry film thickness per coat: 75 microns
- Coverage: 7,2 m<sup>2</sup> per litre at 75 microns DFT
- Packing: 10 Litre Kits

### SURFACE PREPARATION

- Substrates differ significantly; therefore all new applications should be tested first.
- All surfaces must be sound, dry and free of oils, greases laitance and rust.
- Proper preparation is critical to ensure an adequate bond.
- Grit-blast in accordance with Sa 2½ Swedish Standard to achieve a surface profile of 50 microns.
- Newly Galvanized Surfaces remove any oil or soap film with OptiDegreaser and treat the surface with Optima Galv- Etch or sweep blast the galvanized surface with a non-metallic grit.
- Weathered Galvanized Surfaces If the galvanizing has been exposed to weathering; remove the zinc corrosion products by mechanically means. Remove any other contaminants with OptiDegreaser.

#### STEEL - Non Immersion:

Grit-blast to a near white metal in accordance with ISO 8501 Sa 2½ to obtain 50 microns blast profile.

#### STEEL – Immersion:

Grit-blast to a near white metal in accordance with ISO 8501 Sa 3 and a 50 microns blast profile.

### APPLICATION

- Apply by brush, roller or conventional 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: 1 parts base to 1 parts activator.
- Mix separately, then combine and mix well. No induction period is required.
- Thinner: Optima Epoxy Thinner.

## CLEANING

- Clean hands and equipment with Optima Coatings Xylene after use.

## 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

- Use in a well-ventilated area with fresh-air respirators or fresh-air hoods.
- Ensure build-up of fumes does not occur.
- When used in a closed area e.g. internal lining of tanks, air circulation must be arranged.
- Fumes are flammable (flash point <27 °C) and all spark sources must be removed or isolated.
- Hypersensitive people should wear protective clothing, gloves and/or barrier cream of face, hands and all exposed areas.

## TECHNICAL DATA

Pack Size:	10 litres			
Number of Components:	Two			
Volume solids:	60%			
Recommended D.F.T.:	Min: 75micrometers Max: 175micrometers. Typical 75 micrometers			
Recommended W.F.T.:	Min: 125micrometers Max: 292micrometers. Typical 125 micrometers			
Spreading rate:	(Theoretical) 7,2m <sup>2</sup> /l at 75 microns D.F.T. at stated volume solids			
Substrate Temperature:	min: 10°C, max: 40°C			
Ambient Temperature:	min: 10°C, max: 40°C			
Relative Humidity:	min: 0%, max: 80%			
Weather:	Good (chalks)			
Temperature:	Resistant up to 60°C (dry, continuous), 60°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 damages 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 60°C.			
Pot life:	6 hours @ 20°C			
Drying Time:	Temperature	Touch Dry	Hard Dry	Over Coating Time
	10°C	3 hours	12 hours	24 hours
	20°C	1 hours	6 hours	12 hours
	30°C	45 mins	3 hours	6 hours

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: Sept 2015 (this supercedes all previous publications)