

OptiPrime EZ

Optima Coatings OptiPrime EZ is a zinc rich epoxy primer for industrial and marine use. OptiPrime EZ combines epoxy toughness with zinc superior protection. The zinc content gives a cathodic protection if film is damaged. OptiPrime EZ may be over coated with recommended epoxy topcoat or topcoat system.

Colours: Reddish Pink Matt (Epoxies lose gloss in sunlight.)

PRODUCT USES

Optima Coatings OptiPrime EZ is recommended for structural steel, machinery pipes and tank exteriors in paper mills, oil refineries, power plants, chemical process and waste water plants.

ADVANTAGES

- A tough, protective coating with excellent hardness.
- Improves adhesion.
- Excellent corrosion resistance.
- Suitable for immersion in marine environments.

COVERAGE

- 7.8m² per litre per coat, resulting in a dry film thickness of 75 microns.

SURFACE PREPARATION

- Substrates differ significantly, and so all new applications should be tested first.
- All surfaces must be sound, dry and free of oils, greases and loose rust. Proper preparation is critical to ensure an adequate bond.
- Power tool clean in accordance with ST 3 or SSPC-SP3 or hand tool clean accordance with ST2 or SSPC-SP2.
- Water blasting is also acceptable.
 - Non-immersion Service: Abrasive blast to a near white metal finish in accordance with ISO 8501 Sa2½ to obtain a 40 micron blast profile.
 - Immersion Service: For immersion in sea water conditions abrasive blast clean to a white metal finish in accordance with ISO 8501 Sa3 to obtain a 40 micron blast profile.

APPLICATION

Apply by brush, roller or spray.

Roller type:	Short mohair roller.
Spray:	Conventional or airless spray using a 0.013 – 0.019" (0.3 – 0.5mm) nozzle and air pressure of 2100 psi
Mixing ratio:	4 parts base to 1 parts activator by volume Mix separately, then combine and mix well. No induction period is required.
Thinning	Optima Coatings Epoxy Thinner
Clean up:	MEK for cleaning
Substrate Temperature:	Min: 10°C Max: 60°C
Ambient Temperature:	Min: 10°C Max: 50°C
Relative Humidity:	Min: 0% Max: 90%

- Spray application:
 - Use a 50% overlap with each pass to ensure a consistent finish.
 - The following equipment has been found to be suitable. Other similar equipment may suffice:
 - Conventional Equipment: Use a 10mm minimum I.D. material hose, 1.10mm I.D. fluid tip (E) and appropriate air cap. Hold approximately 300 to 350mm from surface and at a right angle to the surface.
 - Airless Equipment: Use a pump ratio of >30:1. A >10mm I.D. hose and a tip size of 0.33 – 0.38mm. Output pressure: 145-159 Bar. Filter size: 60-100 mesh.
- Roller application: A short hair mohair roller or fine foam roller are recommended. Avoid re-rolling.
- Brush application: Use a natural bristle brush. Avoid re-brushing.

Do not apply when the surface temperature is less than 2°C above the dew point.

Drying Time:	Temperature	Touch Dry	Hard Dry	Over coating time
	10°C	16 hours	24 hours	16 hours
	20°C	4 hours	8 hours	4 hours
	30°C	2 hours	4 hours	2 hours

Full cure for immersion conditions 7 days at 24 °C

- Pot life at 20°C: >8 hours

CLEANING

- Clean tools and equipment using MEK.

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.
- If accidentally ingested, seek immediate medical attention.

TECHNICAL DATA

Pack size:	5 Litre
Number of Components:	Two components
Volume solids:	53% ±
Recommended D.F.T.:	Min: 75 micrometers Max: 125 micrometers Typical: 75 micrometers
Recommended W.F.T.:	Min: 130 micrometers Max: micrometers Typical: 130 micrometers
Spreading rate: (Theoretical)	7,1m ² /l at 75 microns D.F.T. at stated volume solids
Colour:	Reddish Pink Matt (Epoxies lose gloss in sunlight.)
Thinner	For Spray Applications may not be thinned more than 10% with Optima Coatings Epoxy thinner by volume.
Storage:	Store indoors away from direct sun at temperatures not exceeding 40°C.

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: September 2014 (this supersedes all previous publications)