Optima COATINGS

DATA SHEET

METAL COATINGS

OptiGuard SFNovolac

OptiGuard SFNovolac is a solvent free high performance epoxy self - priming coating which can be used in marine and industrial environments. OptiGuardSFNovolac has excellent resistance to water and barrier properties, abrasion resistant and can be applied over mechanically cleaned steel and suitably prepared concrete. OptiGuard SFNovolac Adheres to a variety of substrates such as damp steel, concrete and badly prepared steel and previously coated surfaces.

Colours: Red, Black and Grey

PRODUCT USES

- OptiGuard SFNovolac has been formulated as a high performance coating for chemical resistance, wet voids and draining pipes.
- On steel and concrete structures in industrial facilities, waste water plants and other areas subject to high humidity, marine weathering and other exposure levels.
- Chemical Resistance Guide please check with your Optima Coatings Representative.

ADVANTAGES

- OptiGuard SF Novolachas good resistance to splash, spillage and fumes of acids, alkalis, solvents, fresh and salt water.
- OptiGuard SF Novolacis solvent free
- OptiGuard SF Novolacis abrasion resistant

COVERAGE

Percentage volume solids:	~100%
Recommended dry film thickness per coat:	200 microns
Coverage:	5 m²/liter at 200 microns DFT

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, laitance and rust. Proper preparation is critical to ensure an adequate bond to the substrate.

Abrasive blast to a near white metal in accordance with ISO 8501 Sa 2½ to obtain a 25 to 50 micron blast profile.

STEEL Non-Immersion:

Abrasive Blast to a near white metal in accordance with ISO 8501 Sa 2½ to obtain 25 to 50 microns blast profile.

STEEL Immersion

Abrasive Blast to a near white metal in accordance with ISO 8501 Sa 3 to obtain 40 to 70 microns blast profile.

APPLICATION

Apply by brush, roller, and airless.

Roller type:	Short hair mohair roller as for enamel paints
Spray:	Conventional or airless spray using a 0.013 – 0.017" (0.3 – 5,1mm) nozzle and air pressure of 2000 psi (130 bar)
Mixing ratio:	5 parts base to 1 parts activator. Mix separately, then combine and mix well. No induction period is required.
Clean up:	Xylene for cleaning.
Substrate Temperature:	min: 10ºC, max: 40ºC
Ambient Temperature:	min: 10ºC, max: 40ºC
Relative Humidity:	min: 0%, max: 80%

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

Drying Time:	Temperature	Touch Dry	Hard Dry	Over Coating Time
	10ºC	10 hours	14 hours	24 hours
	20ºC	8 hours	8 hours	6 hours
	30ºC	4 hours	6 hours	4 hours

Pot life at 20 ºC: 45 min

RESISTANCE

Weather:	Good (chalks)
Temperature:	Resistant up to 60ºC (dry, continuous), 80ºC (intermittent, dry) and 75ºC (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 alkalis.
Alcohols:	Resists splash and spillage of alcohols e.g. Ethanol and Butanol
Petroleum products:	Immersion in Paraffin, Jet Fuel, Diesel Oil, Petrol etc
Solvents:	Resists spillage of aromatic and aliphatic solvents such as Mineral Turpentine and Benzene.
Water and Salt solutions:	Excellent resistance to spillage and immersion up to 75ºC.

CLEANING

Xylene

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 <27ºC) 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

Number of Components:	Two
Volume solids:	100 %
Recommended D.F.T.:	Min: 200 micrometers Max: 250 micrometers Typical: 200 micrometers
Recommended W.F.T.:	Min: 210 micrometers Max: 300 micrometers Typical: 200 micrometers
Spreading rate: (Theoretical)	5 m^2 /l at 200 microns D.F.T. at stated volume solids
Colour:	Red, Black and Grey in a sheen finish

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: March 2013 (this supersedes all previous publications)