

# PRODUCT DATASHEET

## OMEGA UNIPOX Gloss 4210

### General Description

A high quality, multi-use two-component epoxy polyamide with high gloss finish. Designed for tanks, machinery, floors, structural members, walls, boats, and other industrial and commercial substrates requiring a durable coating in mild to severe corrosive environment.

### Recommended Use

Excellent for use on ferrous metals (steel, iron), non-ferrous metals and galvanized metals, concrete, and fiberglass. Moderate to heavy-duty performance in commercial and industrial environments exposed to intermittent spillage of mild to heavier chemicals. This is the ideal topcoat finish for swimming pools, water fountains, and floor coatings.

### Features

- ✓ High cross-linked film for toughness and durability
- ✓ Suitable for immersion
- ✓ Corrosive resistant
- ✓ Resists chemicals and solvents (diluted acid, oil, etc.)
- ✓ High coverage, high gloss finish

### Limitations

This is a two component product that requires 4:1 mixing with hardener. It has a pot life of 8 hours. This product will not cure at surface temperatures below 10 °C. All epoxy coatings will chalk and fade if applied on exterior surface subjected to direct sunlight.

### Technical Data

Color	Clear, White, Grey. Other colors available, contact Omega's representative
Finish	High Gloss
Vehicle Type	Polyamide Epoxy
Pigment Type	Titanium Dioxide
Volatile Organic Compounds (VOC)	365 gm/Ltrs
Solids Contents	54% +/- 2% by volume
Dry Film Thickness (DFT)	Dry: 50 µm / 2.0 mils (indicative) Wet: 95 µm / 3.8 mils
Dry Time	To touch: 4 hours To recoat: min. 4 hours (30 °C), max. 4 days (30 °C) High humidity and cool temperatures will result in longer dry, recoat and service time
Dries by	Chemical Cure
Theoretical Spreading Rate (TSR) at Dry Film Thickness	10.8m <sup>2</sup> per liter (depending on the nature and condition of the substrate)
Viscosity	55-95 KU
Flash Point	23 °C / 72 °F
Specific Gravity	0.95 – 1.55 gm/cm <sup>3</sup>
Surface Temperature at Application	Minimum allowed is 10 °C Maximum humidity during application and curing is 85% and dew point above 3 °C
Thin With	Omega Epoxy Thinner 9020, 5-15%
Clean Up Thinner	Omega Clean Thinner 9011
Available Package Size	5 Ltrs, 20 Ltrs
Shelf Life	24 months, sealed and kept at normal temperature (not in direct sunlight)

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## Approvals and Certificates

Determination of Specific Gravity – BS EN ISO 2811 – 1 – 1: 2011  
Determination of Opacity – BS EN ISO 2814: 2006  
Determination of Gloss – BS EN ISO 2813: 2014  
Determination of Volatile Organic Compounds (VOC) – USEPAC Method 24  
Determination of Viscosity @ 25°C – ASTM D2486  
Determination of Touch Dry Time – By Touching  
Determination of Solid Content – BS EN ISO 3251:2008  
Determination of Scrub Resistance – ASTM D 2486  
Determination of Hydrochloric Acid 18% - ASTM D 1308  
Determination of Sodium Hydroxide 25% - ASTM D 1308  
Determination of Oils, Vegetable and Minerals – ASTM D 1308

Additional certificates and approvals may be available on request

## Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, and flaking paint and other surface contaminants. This product can be applied over most old industrial finishes in good condition.

For new concrete and masonry surfaces: Must be allowed to cure a minimum of 30 days before painting. Acid etching or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturer's directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with one coat of Omega Epoxy Sealer and Primer series product.

For new steel and ferrous metals: All direct to metal coatings provide maximum performance over near white metal blasted surfaces. There are however, situations and cost considerations that many prevent this type of surface preparation from being done. Contact Omega Paints® representative for products that provide protection over less than ideal surfaces. The steel profile after the blast should be 1-2 mils and be jagged in nature. Surfaces must be free of girt dust. The coating should be applied as soon as possible after the blast in order to prevent flash rusting or surface contamination. Hand tool cleaning or power tool cleaning can be used if blasting is not possible. In areas where adequate surface preparation is not possible, you may require an epoxy curing agent such as Omega Mio Epoxy 2220. In highly corrosive areas where additional rust inhibitive qualities are required, prime with one coat of Omega Zinc-Rich Epoxy Primer 2222 prior to applying epoxy coatings.

For galvanized and non-ferrous metals: Solvent clean all surfaces. Apply one coat of Omega's solvent-free or water-based epoxy sealer and primer series.

**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. Wear an approved respirator to control lead exposure. Carefully clean up with a vacuum and a wet mop.

## Application Method

This is a two component kit and is pre-proportioned for error free mixing. DO NOT vary from these instructions. Mix "A" and "B" separately before combining.

Application can be by airless and air spray with nozzle orifice of 1.5mm and nozzle pressure of 3-4 bar / 43-57 psi. Can also be applied by natural brush and roller.

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## System Specification

This product is used best with Omega's Epoxy coat systems. Use the appropriate Epoxy sealer or primer depending on substrate and corrosive condition / environment. All epoxies tend to yellow; top-coating will be necessary for color and gloss retention. Mix with Omega Epoxy Hardener 8210.

## Storage and Handling

The product must be stored in accordance with national regulations and should be kept in a cool and well ventilated place. Protect from heat and direct sun light, handle with care and stir well before use.

## Health and Safety

Apply under well-ventilated conditions. Do not breathe or inhale mist. When applying, wear air-mask and avoid skin contact. Spillage on skin should be immediately removed with suitable cleanser, soap, or water. Eyes should be well flushed with water and medical attention to be sought immediately.

## Disclaimer

The information is given in good faith. We warrant our product is of good quality and manufactured in accordance to rigid standards. Failure of this product due to misuse or bad storage is beyond the manufacturer warranty. The company pursues a policy of continuous improvement in product innovation, and as such, reserves the right to change the given data without prior notice. Contact Omega's representative or visit [www.omegapaints.net](http://www.omegapaints.net) for more info.

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