

TECHNICAL DATA SHEET

V2-12/05/2024

DESCRIPTION

PD516 Red Oxide is a high performance, solvent free, glass flake filled, extremely chemical and acid resistant epoxy coating.

PROPERTIES

- Excellent Chemical Resistance
 - 98% Sulphuric Acid Resistant
- Very Low Permeability
- Excellent Corrosion Resistance
- Excellent Undercutting Resistance
- Can be applied to steel and concrete.
- Easy to clean and resistant to bacteria.
- Bond Strength: Breaks Concrete
- Good Application Properties

RECOMMENDED AREAS FOR USE

A coating where extreme chemical and acid resistance is required. Typical areas include:

- Chemical storage and process vessels.
- Chemical process equipment.
- Floors & chemical trenches in process areas.
- Secondary containment areas.
- Loading and offloading areas.
- Pump and tank pedestals.
- Surfaces exposed to chemical spillage/fumes.

PD516

CHEMICAL RESISTANT EPOXY SPRAY GRADE

COLOUR	: Red Oxide
Nº. OF COMPONENTS	: 2
MIXING RATIO (VOL)	: 2 : 1
CONSISTENCY	: Thick Liquid
VOLUME SOLIDS	: 100%
MIXED DENSITY	: 1.32
PRACTICAL SPREAD RATES	: 4m ² /l
DRY FILM THICKNESS (PER COAT)	: 250µm
POT LIFE @ 25°C	: 50 min
TOUCH DRY @ 25°C	: 4 hrs
HARD DRY @ 25°C	: 24 hrs
FULL CURE	: 7 days
OVERCOATING TIME	: Min: 6 hrs : Max: 24 hrs
APPLICATION TEMPERATURE	: 10 to 40°C
OPERATING TEMPERATURE	: -20°C to +60°C
RECOMMENDED NO. OF COATS	: 2 - 3
STORAGE TEMPERATURE	: 10 to 40°C
MINIMUM SUBSTRATE TEMP	: 5°C
THINNERS	: Epoxy Thinners
CLEANING SOLVENT	: P701 WSBC
SHELF LIFE	: 12 months
PACK SIZE	: 5 litres (Base: 3.25l, Act: 1.75l)

CHEMICAL RESISTANCE

Resistant to most acids & alkalis, including 98% Sulphuric Acid, 37% Hydrochloric Acid, 50% Sodium Hydroxide, petroleum products & Aliphatic Solvents.

SURFACE PREPARATION

Concrete

All surfaces must be clean, structurally sound and free of dust, oil and dirt. Concrete surfaces should be abrasive blasted or acid etched to remove laitance. Moisture content should be below 10%.

Steel

Grit-blast to Sa2½ (ISO 8501-1:2007), Minimum 75µ angular profile.
Ensure soluble salts are removed by high pressure washing with Holdtight 102 or equivalent.

PRIMING

Dense Concrete: Prime with P101 Epoxy Penetrating Primer @ 8m²/litre. Porous Screeds: Prime with P118 Solvent Free Epoxy Primer @ 4m²/litre.

Repairs: Fill all imperfections with P302 Epoxy Mortar Std / P123 Acid Proof Epoxy Mortar.

Grit Blasted Steel: Prime with P501 Epoxy Zinc Phosphate Primer @ 10m²/litre.

APPLICATION

Thoroughly mix the resin and activator in the correct proportions. Apply by short nap roller, brush or airless spray.

Airless Spray Tip Size	575-875µ
Pressure At Tip	245-350kg/cm ²



Allow the resin to cure for a total of 7 days before exposing it to strong acids.

TOXICITY

Although PD516 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy systems are adhered to. Refer to the relevant 16-point Safety Data Sheet.

HOW TO SPECIFY

All surfaces to be prepared, primed and then coated with PD516 Chemical Resistant Epoxy to an average thickness of 500 microns in accordance with the manufacturer's instructions.

