

CAT NO	CAT	UPDATE	REF NO
4	TP	06/30/26	TP-ZNR40
	Technical Paints - Zinc Rich Primer		Alpha Seires



Formulating The Future®

EST. 1989



PETROPRIME® ZNR-40

Petrokem Petroprime® ZNR-40 is a two component, high quality zinc rich epoxy primer specially developed to meet the increasing demand for zinc based anticorrosive primers. The product is manufactured using epoxy resin base and polyamide activator combined with a high percentage of zinc dust (Minimum of 40%). The product is recommended for the protection and maintenance of all steel structures in civil engineering applications, storage/ballast tanks, ship hulls, decks, steel pipe lines, Cargo oil tanks, bridges, off shore structures, radial gates, oil installations etc. The product acts as a high quality anticorrosive primer for steel, carbon steel and it can be applied on damaged areas of galvanised steel substrates. The product when applied as part of a complete coating system will protect the surface against highly corrosive elements such as salty sea spray and therefore is recommended for coastal areas.

Properties			
	Base	Activator	Mixture
Appearance	Viscous Paste	Liquid	High viscosity primer ready for airless spray/brush application
Colour	Dark grey	Amber	Grey
Density	2.23 - 2.63 Kg/Lt	0.90 - 0.96 Kg/L	1.90 - 2.10 Kg/L
Composition	Epoxy Base rich in pure zinc	Polyamide Base	Two pack room temperature cured
Viscosity (Ford Cup No4)	Paste	12 - 16 secs	Varies With Time
Mixing Ratio	2 parts of Base to 1 part of Activator by volume		
Pot Life			1 hr at 30°C
Dry To Touch			Within 8 hrs at 30°C
Minimum Curing Temperature			Over 5°C
Dry Film Thickness (DFT)			Refer Coverages
Over Coating			After 8 hrs Before 02 days
Full Cure			48 hrs
Application Temperature			Preferably be Over 15°C
Pure Zinc Content			Minimum of 40%
Finish			Matt finish





General Characteristics

Petrokem PetroPrime® ZNR 40

- Cold galvanising system (Alternative for hot-dip galvanising)
- Protects substrate by cathodic protection
- Adheres to steel, carbon steel and other metals.
- Excellent anti-corrosive properties
- Fast drying primer which acts as a excellent primer for high solids epoxy build-coats.
- Non toxic when fully cured.
- Resistant to salty sea spray.
- Extremely durable primer after proper curing.
- Can be used indoors and outdoors.
- Cures at room temperature or at elevated temperature.
- Complies with SSPC-Paint 20 level 2



Directions

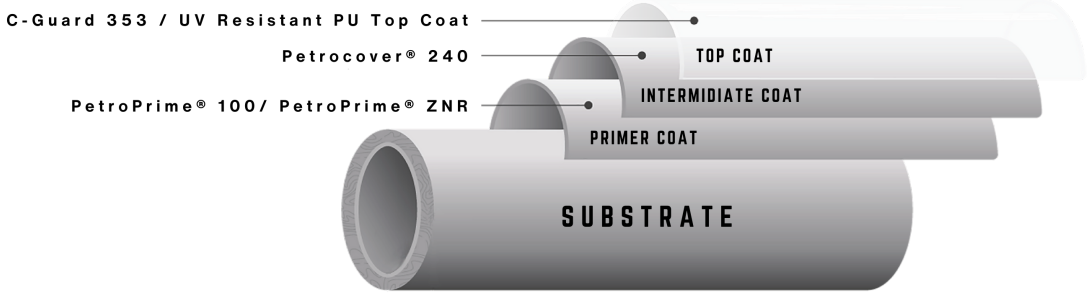
Surface Preparation

- All painted or corroded surfaces should be cleaned using suitable equipment to remove all loose material, grease, oil and all other foreign matter. Surface to be painted should be clean and completely dry for best performance. Roughen metal or smooth, glossy surfaces for best results. Do not touch the surface after cleaning.

Substrate	Minimum preparation	Recommended preparation
Carbon steel	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Previously coated surfaces	Any existing coating must be compatible, intact, dry and free of contamination.	Any existing coating must be compatible, intact, dry and free of contamination.
Stainless steel	Roughen the surface by hand or machine using non-metallic abrasives or bonded-fibre abrasive pads until an even scratch pattern is achieved.	Blast clean with non-metallic abrasive media chosen to develop a sharp, angular surface profile.
Galvanised steel	Surface should be clean and dry, with a dull, lightly roughened appearance.	Sweep blast with non-metallic abrasive to produce a clean, uniformly roughened texture.
Concrete	Prepare by dry abrasive blast cleaning in accordance with SSPC-SP 13/NACE No. 6.	Prepare by dry abrasive blast cleaning in accordance with SSPC-SP 13/NACE No. 6.

Following the recommended preparation gives the best results for adhesion, corrosion protection, heat tolerance and chemical resistance.

 Directions	
Application Methods	• Spray: Use normal/airless spray. Nozzle tip (inch/1000): 17-21 Pressure at nozzle (minimum): 150 bar/2100 psi • Brush: Recommended for stripe coatings. Care must be taken to achieve the specified dry film thickness. • Roller Recommended for application be used for scallops, ratholes, small pipes.
Application	• Stir the base component separately for 2 minutes before below step. This is to activate the product's anti-settlement properties. • Mix thoroughly 2 volumes of Petrokem PetroPrime® ZNR-40 base and 1 volume of Petrokem PetroPrime® ZNR-40 Activator. Five minutes of thorough mixing is recommended. Use Petrokem epoxy thinner 221 if required. (Adding too much thinner will reduce the DFT and slow the curing time. Thinner should be added after mixing the 2 components) Use the mixture within 1 hour. • Apply the mixture to the surface by using suitable spray equipment (at 40-60psi) or brush/roller. The primer should be applied to the bare metal for anticorrosive protection and for best results.
Miscellaneous	When applicable, products primarily intended for use as primer coats may exhibit slight color variations from batch to batch. Additionally, epoxy-based products used as a primer coat may chalk when exposed to sunlight (UV) and weathering. Primers need to over-coated with an intermediate coat. The color and gloss retention on finish coats may vary depending on the type of color, exposure environment (such as temperature and UV intensity), application quality, and the generic type of paint. Petrokem PetroPrime® ZNR-40 is intended as an primer coat. For further information, please contact Petrokem.

 Other Information	
Coverages	Approximately 6.5 - 7.5 Sqm at DFT 76-66 microns per litre of mixed paint Approximately 10 -11 Sqm at DFT 50-45 microns per litre of mixed paint
Cleaner	Use Petrokem Epoxy Thinner 221 for cleaning of equipment etc.
Packaging	Available in 667ml of Base and 333ml of Activator (1 Litre pack) or supplied as per customers request for bulk orders
Shelf Life	Minimum 12 months from date of manufacture when stored in cool, dry environment.
 Methodology Illustration	
	

Disclaimer :

The information contained in this document is based on Petrokem's knowledge, drawn from laboratory testing and practical experience. Petrokem's products are categorized as semi-finished goods and may be used under conditions beyond the company's control. While Petrokem guarantees the quality of its products, no additional assurances can be provided. Furthermore, Petrokem reserves the right to amend the information presented in this document or elsewhere without prior notice.



Ensure good ventilation.
Avoid eye / skin contact

Eye contact : rinse with running water for 10 minutes and seek medical advice.
Skin contact : wash with soap and water.
Keep container closed and out of reach of children.
Refer material safety data sheet.

Health & Safety Precautions

Petrokem PetroPrime® ZNR-40 Base and Activator are chemicals and care should be taken when handling. For details please read Petrokem epoxy safety and handling information sheet. A copy of this manual will be supplied on request.



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