

ZINQCOAT®

Product description

ZINQCAOT is a high-performance Pure Zinc Galvanizing Coating System designed for the cathodic protection of steel and steel castings. **ZINQCOAT** is a one component, ready-to-use system, it features an exceptional 96% ultra-pure zinc content in its dry film with a zinc purity of 99,995%.

Typical use

Protective:
Suitable for structural steel and piping to be exposed to corrosive environments up to very high. Recommended for offshore environments, refineries, power plants, bridges, buildings, mining equipment and general structural steel. Specially designed as a Zinc galvanizing coating system where extended durability is required equivalent to hot dip galvanizing.

Approvals and certificates

Pre-qualification testing in accordance with ISO12944-C5M-VH, CX, ASTM B117/ISO12944-6/7253 Excellent, suitable for exterior exposure in offshore environment, below 120 °C.
Additional certificates and approvals may be available on request.

Colours

Mat light grey (RAL#7001)

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	56 ± 2 %
Gloss level (60 °)	ISO 2813	matt (0-35)
Flash point	ISO 3679 Method 1	52 °C
Specific gravity	calculated	3,15 kg/dm3
VOC-Solvent Emission Directive	SED (1999/13/EC)	340 g/Lt

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Recommended film thickness per coat

Film thickness and spreading rate	Dry film thickness	Wet film thickness	Theoretical spreading rate
	(µm)	(µm)	(m²/l)
Minimum	25	45,62	21,92
Maximum	150	273,72	3,65
Typical	80	145,99	6,85

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	St 3 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Surface profile	50 µm Rz (ISO 8503-1)	70 µm Rz (ISO 8503-1)

Application

Application methods

The product can be applied by

Spray: Use airless spray.

Brush & Roller : Apply the first layer by brush and after a second layer by roller

Product preparation before use

Stirring : The product must be mechanically stirred before use in order to avoid zinc deposit in the bottom of the pail

Thinning: Dilute by 4 to 10% with Exanol only

Thinner/Cleaning solvent

Thinner: Exanol

Guiding data for airless spray

Nozzle tip : 0.015 – 0.020" (0.38 to 0.51 mm)

Pressure at nozzle (minimum): Low pressure application is recommended – 100 to 150 bar

Drying and Curing time

Substrate temperature	2 °C	25 °C	38 °C
Surface (touch) dry	1.5h.	45min.	35min
Dry to handle	2.25h	1h	1h
To recoat - minimum	4h	3h	3h
To recoat - Maximum	unlimited		

Drying times vary according to the thickness of the wet film, ambient temperature and humidity level

Apply two coats using a spray gun. No waiting time between coats

Apply with a brush/paintbrush/roller: waiting time between coats as needed (minimum of two (2) hours after dry to the touch).

The drying process varies depending on temperature and humidity.

Relative humidity during the application and drying: minimum 30% maximum 99%

Heat resistance

	Temperature	
	Continuous	Peak
Performances in hot and cold weather	-62°C to +120 °C	160 °C

Peak temperature duration max. 1 hour.

Product compatibility

Can be covered with most paint products, if necessary (avoid Alkyds)

Packaging

6 kg and 12 kg containers

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Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care. Keep containers completely closed in a dry store, between 5 °C and 20 °C in the original unopened container. Shelf lifetime (unopened container) unlimited.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Colour variation

Products primarily meant for use as primers and antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Disclaimer

The information in this document is given to the best of our knowledge, based on laboratory testing and practical experience. Our products are considered as semi-finished goods and as such, products are often used under conditions beyond our control. Exa Contech Ltd cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Exa Contech Ltd reserves the right to change the given data without further notice.

Users should always consult Exa Contech Ltd for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English version will prevail.

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