BOERO FRESH WATER EU

700.910

Description

Two component, true solvent-free epoxy tank coating specifically formulated for freshwater tanks, RINA certified and in compliance with DM 174/2004. BOERO FRESH WATER EU is an odourless with easy application, even in confined spaces with an excellent adhesion on steel, aluminium and composites.

Use

Fresh water tank coating with potable water certification.

Certifications

RINA DM174/2004

Informations

Finish	Semi-glossy	
Colours	.001 White - .051 Grey	
Pack	5 l	
Solids by Volume	100 ± 2%	ISO 3233-2
Specific Gravity	1,30 – 1,35 g/cm^3	ISO 2811-1
Flash Point	100 °C	ISO 3679
VOC	0 g/l	Calculated
Shelf Life	Comp. A 36 months Comp. B 24 months	

Application

SURFACE PREPARATION

Remove all trace of contamination, grease and oil by high pressure freshwater cleaning. Proceed with degreasing using a suitable detergent or solvent cleaning if necessary and repeat freshwater cleaning. All surfaces must be clean, dry and free of contaminants before application of recommended products. Maximum allowed concentration of water-soluble salts is 50 mg/m^2 (NaCl equivalent) (ISO 8502-9). Substrate preparation recommended grade P 2 (ISO 8501-3). Supplied air for surface preparation and cleaning must be dry and clean.

NEW BUILD

Steel and aluminium: abrasive blasting grade Sa 2½ (ISO 8501-1). Use a suitable abrasive (non-metallic abrasive for non-ferric metals). Surface profile after surface preparation between 50 - 90 µm (Rz value) (Medium Grade ISO 8503-1). Apply the first coat over the treated metal before losing the indicated standard.

MAINTENANCE & REPAIR

Coated surfaces: spot repair for minor areas. Remove all loose / poor adhered paint. Provide superficial rugosity with sandpaper grade P120 to all exposed primers until obtaining a uniform non-shiny surface. Touch-up to re-build the primer thickness for corrosion protection.

Steel and aluminium: corrosion spots and degraded material: spot abrasive blasting grade Sa 2½ (ISO 8501-1) of new plates, welds, corrosion and degraded materials with an adequate abrasive. Alternatively, for minor areas, use mechanical grinding with abrasive disks P36 coarse until achieving grade St.3 (ISO 8501-1): the metal surface must be clean and uniformly rough, avoiding polishing the surface. Remove all loose / poor adhered paint. Avoid sharp edges between spots of remaining intact paint and the surface by feathering it. Touch-up to re-build the primer thickness for corrosion protection. Remove all trace of contamination, grease and oil by high pressure freshwater cleaning. Proceed with degreasing using a suitable detergent or solvent cleaning if necessary and repeat freshwater cleaning. Composites should be free from any wax or mould release coating. All surfaces must be clean, dry and free of contaminants before application of recommended products. Supplied air for surface preparation and cleaning must be dry and clean.

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How to Apply

Standard 	Brush and roller Only for minor areas and stripe coat
Airless 	Pressure 150 bar Nozzle tip 17 – 21 mm

Film Thickness per Coat

DFT	Recommended: 150 µm Standard application range: 150 - 200 µm
WFT	Recommended: 150 µm Standard application range: 150 - 200 µm

Additional Application Information

Theoretical spreading rate	Application range at the recommended thickness: 150 µm – 6,7 m2/l
Practical spreading rate	Application range at the recommended thickness: 150 µm – 4,7 m2/l
Thinner	Dilution: Not recommended Tool cleaning: Thinner 693
Hardener	910.000C BOERO FRESH WATER EU COMP. B
Mixing ratio by volume	5:1
Mixing ratio by weight	88:12
Pot-life at 20 °C	45 min.

Application notes

Prepare the painting by mixing the components in the correct proportions. It is recommended to mix complete kits to avoid a wrong mixing ratio that may reduce the paint designed protection. If less paint is needed, smaller amount may be prepared in a mixing ratio cup. Thinning is not allowed, only in exceptional cases use food grade alcohol at maximum 5%. Dilute the mixed product, not the components separately. Extra thinning will result in lower film build and slower drying. Minimum two stripe coats are mandatory between full coat applications. Touch up by brush or roller difficult areas to reach such as on welds, edges, etc. until reaching the specified thickness.
The physical data of two-component products refer to components that have been already mixed.

Compatibility

Previous Coat

N.A.

Subsequent Coat

N.A.

Drying Time

	10 °C		15 °C		20 °C		30 °C	
	Min	**Max**	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
Overcoating interval	N.A.	N.A.	10 h	72 h	8 h	72 h	6 h	48 h
Complete curing	N.A.	N.A.	7 days	7 days	7 days	7 days	5 days	5 days

N.B. The drying times and the overcoating intervals increase with higher thickness of the applied paint film. Always check the existing paint film is dry before applying any further product coats.

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Conditions during application

During application and curing:
Ambient temperature: minimum 10°C, maximum 35 °C.
Minimum substrate temperature 10 °C (if during the curing the temperature drops below 10 °C, overcoating will take additional time).
Avoid the formation of condensation, the surface temperature should be at least 3 °C above dew point.
Maximum relative humidity 85%.
Painting area should be well ventilated, during application and drying/curing.

Storage

It is recommended to avoid exposure to air and extreme temperatures. To maximize the shelf life in the can, check that the container is closed during the storage and the temperature is between 5 °C and 35 °C.
Avoid exposure to direct sunlight.

Safety Rules

Comply with the provisions set by the local health and safety at work regulations. Avoid contact with the skin, operate in well-ventilated places and, if in closed areas, use vacuum cleaners, fans and air conveyors. During the application use appropriate PPE - Personal Protections Equipment (masks, gloves, glasses, etc.). Before using, read sections 7-8 of the SDS
INSTRUCTIONS FOR THE DISPOSAL OF THE BIOCIDAL PRODUCTS AND PACKAGING
Empty packaging containing biocidal products: disposal of empty packaging according to the requirements of the waste disposal law, for example by taking them to the recycling centre. Packages containing the unused biocidal product: Dispose of the product not used in accordance with the law of disposal of such waste, for example by taking it to a recycling centre, recycling of packaging is prohibited in this case. Do not empty into drains or watercourses.
INSTRUCTIONS FOR THE SAFETY SECURITY OF THE BIOCIDAL PRODUCTS AND PACKAGING
Empty containers and containers still containing the biocidal product: Packaging must be disposed of as hazardous waste under the full responsibility of the holder of such waste. Do not empty into drains or watercourses.

Disclaimer

The values indicated in the present technical sheet can have slight variations from one batch to another. The applied product must not come in contact with water, chemicals or subjected to mechanical stress before the curing is complete. The wet film thickness refers to the undiluted product. In case of dilution, this value increases. The above information is the result of accurate laboratory tests and practical experience, however, since the product is predominantly used outside the manufacturer's control, Boero Bartolomeo S.p.A. can only guarantee their quality. The information contained in this sheet may be subject to revision by the Company. For clarification, updates or further information, it is recommended to contact Boero Bartolomeo S.p.A. directly. The present datasheet annuls and replaces every other precedent to this one.