



ECOLOFLEX SPC 200 Z

PRODUCT DESCRIPTION: Self-polishing hydrolytic antifouling copper silyl acrylate copolymer-based coating, developed with technology patented by Nippon Paint Co. Ltd.
 This product is tin free and complies with the International Convention for the Control of Harmful Antifouling Systems on Ships as adopted by IMO in October 2001 (IMO document AFS/CONF/26).
 Produced by Paumar S / A Ind. And Com. in association with Nippon Paint Marine Co. Ltdx
 LOCAL BRAND OF JAPAN: W-ECOLOFLEX SPC 200 Z

RECOMMENDED USES: Product especially developed for sea vessels in general. The ECOLOFLEX SPC series ensures long and excellent antifouling performance.

CERTIFICATIONS AND APPROVAL: This product contains no organ-active components with tin, which act as biocides, therefore it complies with the International Convention on the Control of Noxious Antifouling Systems on Ships, as per IMO dated October 2001 (IMO Document AFS / CONF / 26).

PACKAGING:	Component	Content	Package	Unit of measurement
	Monocomponent	3,6 20	3,6 20	L

CHARACTERISTICS:				
Color:		Red		
Gloss:		Semigloss		
Volume solid:		58 ± 2% (ISO 3233).		
Shelf-Life:		18 months.		
Thickness per coat (dry):		65 µm –150 µm		
Theoretical coverage:		6 m ² /l without dilution in the thickness of 100 µm dry. Without considering loss factors in application.		
Drying:				
		5°C	20°C	30°C
Touch:		1 hour	40 minutes	30 minutes
Handling:		3 hours	1 hour	40 minutes
Before flooding:		18 hours	12 hours	10 hours
Overcoating Drying:				
		5°C	20°C	30°C
	Min	6 hours	4 hours	3 hours
	Max			

SURFACE PREPARATION The performance of this product depends on the degree of surface preparation.

The surface must be clean, dry and free of any contaminants. Completely remove oils, greases and fats, as described in the SSPC-SP 1 standard.

New buildings

The antifouling coating must be directly applied to a specific primer and sealer in order to form a suitable coating system. For the correct application of the primer/sealer, refer to its data sheet. The surface of the sealant should be clean, dry and free of any contaminants, and the antifouling coating should be applied within the sealant specific overcoating interval (refer to the sealant data sheet).

Recommended primers for application over steel: Weg Tar Free 712 N 2851 and Wegoxi Wet Surface 89 PW.

Recommended sealers: Weg Tie Coat and W-nilica Tar Free CVI 810.

Maintenance and repair

The product should not be directly applied to other TBT-free antifoulings from Weg or another manufacturer without prior consultation with Weg. Any application without consultation is not authorized.

Initially remove any dirt and oil from the surface with clean cloths soaked in diluent for cleaning according to SSPC SP1. Whenever cleaning a surface with cloths, avoid the use of cotton waste or colored cloths. Repair the damaged areas and redo the anti-corrosion scheme.

For further information, consult WEG Technical Department.

PREPARATION FOR APPLICATION

Mixture

Homogenize the contents of the package by means of mechanical or pneumatic stirring. Ensure that no sediment is settled at the bottom of the package.

Diluent

Antifouling diluent

Dilution

Depending on the application method, dilute at most 5%

Do not dilute with solvents that are not allowed by local legislation and do not exceed the recommended dilution percentage.

The quantity of diluent may vary depending on the type of equipment used and the ambient conditions during the application.

Excessive dilution of the coating may affect the formation and aspect of the film and not allow to reach the specified thickness.

Pot life of the mixture (25°C)

Not relevant

APPLICATION FORMS

The data below is a guide, and similar equipment may be used.

In the spray application, make a 50% overlap in each gun pass, concluding with a cross pass. This technique is used to avoid uncovered and unprotected areas and to obtain a suitable aesthetic finish.

Changes in nozzle sizes and pressures may be necessary to improve spraying characteristics. Purge the compressed air line to prevent contamination of the coating.

Recoat all sharp edges, cracks and weld beads with a brush to prevent premature failures in these areas.

Before application, check the equipment and its components are clean and in best condition. The data below is a guide, and similar equipment may be used.

Airless Gun:

Use Airless:	Use at least pump 60: 1
Fluid pressure:	2000 – 3000 psi
Hose:	3/8" internal diameter

Nozzle:	0,019" - 0,023"
Dilution:	Max. 5%

Flooding:

Only recommended for touch up small areas or stripe coat (screws, nuts, weld and sharp edges). Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch up.

Roller:

Only recommended for small areas or retouching. Use a thin nap, seamless sheepskin or microfiber roller for epoxy coatings.

For application with brush and/or roller, two or more passes may be necessary to obtain a uniform layer according to the recommended film thickness per coat.

Cleaning the equipment:

Antifouling diluent

NOTE:

Do not leave material in the hoses, spray guns and equipment used in the spraying. Thoroughly wash all equipment used.

Furthermore, it is a good working practice to periodically wash the spray equipment along the day. The cleaning frequency will depend on the amount sprayed, temperature and elapsed time, including all

delays.

Clean all equipment immediately after use.

PERFORMANCE IN THE APPLICATION

For a good performance of the product, we recommend following the directions below:

In paintings carried out in front of the sea, if exposed to sea air, we recommend to wash with fresh water between coats eliminating settled impurities.

We recommend coating only if the surface temperature is at least 3 °C above the dew point temperature.

In coatings with variation in application method in the same job, the final aspect and gloss of the painted surfaces may show differences.

The temperature of the substrate, the weather and environmental conditions during the application and during the curing of the product, and the thickness of the coat may interfere in the product drying time.

The surface must always be coated with suitable primer and/or sealant. Consult WEG for the best primer or sealant for the application.

After 3 months from the product application without flooding, the performance may be affected. Overcoating information is provided primarily as guidance and is subject to regional climatic variations.

Limitations:

The performance of the product depends on the reaching of the specified dry film thickness, and it may vary depending on the type of water it will sail and also the daily operation hours of the vessel.

The wear rate depends on the temperature of the water, vessel speed, operation regions, among other factors.

The time before flooding is related to the environmental conditions, ventilation, dry film thickness and number of coats, which will be affected accordingly.

The results of the performance tests were obtained in the laboratory under controlled conditions and WEG does not guarantee that the results of the tests mentioned in this document, or any other tests, represent exactly the results of all environments found in the field such as overly polluted waters, rivers and others. Since environmental factors may present significant variations, care should be taken in the selection, assessment of the desired performance and use of this coating.

PERIODS WITHOUT APPLICATION: Thoroughly wash all the material and equipment with the recommended diluent. Keep all unused coating in tightly sealed containers. All material stored in partially filled containers may present skin or some kind of change, such as higher viscosity after long periods of storage. For those cases, we recommend filtering the product before application.

The product should be applied within the overcoating interval as specified in the data sheet.

WELD: In case of welding or cutting operations on the painted metal, the emission of fumes and gases will occur, which will make necessary the use of appropriate PPE and adequate ventilation and exhaust systems.

Variations in color, aspect and gloss (more noticeable in dark colors) may occur, as well as delay in curing and low coating performance, when applied during periods of high air relative humidity, rainy days, low temperatures or drying the coating outdoor.

It should not be applied in adverse conditions, such as air relative humidity above 85% or on condensed surfaces. Small variations in color, appearance and gloss of the coated parts may occur in periods of high air relative humidity, rainy days, at low temperatures or in situations where the coated parts are placed to dry outdoors.

For better application properties, the coating temperature should be between 21 - 27 °C prior to the mixing and application.

For further information, consult WEG Technical Department.

SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals.

Please read carefully all the information contained in the MSDS of this product, available at: www.weg.net.

Store in a covered, well-ventilated area. Keep the container tightly closed and away from sources of heat or ignition.

Use only in well-ventilated areas avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.

Do not inhale mists / vapors / aerosols generated during handling and / or application.

Wear protective gloves / protective clothing / eye protection / face protection.

Avoid release this product and its packaging, as well as materials used during handling and application in

the environment.

NOTE:

The information contained in this technical datasheet is based upon the experience and knowledge acquired in the field by the technical team of WEG.

If using the product without previous inquiry to WEG Coating concerning its suitability for the customer's intended purpose, the customer is aware that the use shall be its exclusive responsibility, WEG not being responsible for behavior, safety, suitability or durability of the product.

Some information contained in this datasheet are estimated, and can undergo variances arising from factors outside the manufacturer's control. Thus, WEG does not guarantee and does not assume any responsibility regarding the yield, performance or any other material or personal damage resulting from the incorrect use of the products concerned or the information contained in this Technical datasheet.

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