



# BIOCLEAN ECO

**Product description:**

BIOCLEAN ECO is a silicone based foul-release coating.

It is specially designed for high fouling areas where the water flow is minimal.

It has the following advantages:

- Biocide free,
- High volume solid, low V.O.C.,
- Long service life,
- Effective from water flow of 3m/s.

IMO Anti-fouling Systems Convention compliant (AFS/CONF/26).

**TECHNICAL DATA**

**Type:** Special synthetic resin foul-release coating.

**Recommended use:** In cooling water facilities of electrical power stations, intake tunnels of desalination plants or other structures which are mainly based underwater (seawater).

**Surface Preparation:** New application:  
Remove all contamination such as fouling, dirt, grease, oil, etc. prior to paint application. This can be done by ultra HP-washing (250bar/350psi) or blasting (garnet, sand or grit).  
Re-coat:  
Remove slime and other types of fouling by HP washing. Pressure to be used 100-120 bar (1400-1700psi).

**Physical Data:**

Colour:	Transparent, white*
Flash point:	56°C
Volume solids %:	94 ±2
VOC (g/l):	51 Theoretical

**Application Details:**

Thinner:	SILICON THINNER BA
Min. Temperature:	0 °C
Max. humidity:	85% R.H.
Application Data:	Airless spray, brush**, roller**

**For airless spray:**

 Tip No.:	Graco 619, 719
Paint output pressure:	17.7 - 20.6 MPa
 Thinning:	0 - 1 % (by volume)

**Film thickness and spreading rate:** Min.

Film Thickness, wet:	160	µm
Film Thickness, dry:	150	µm
Spreading Rate:	6,3	m <sup>2</sup> /l (theoretical)

**Preferable preceding coating:** ECOMAX Bi.

**Preferable subsequent coating:** -

**Packing:** One Pack Product

Notes: \* Data for white: VS 84% ±2, DFT 150µ, WFT 178µ, Spreading rate 5,6 m<sup>2</sup>/l, Flashpoint 26,5°C, VOC 136 g/l, Thinning 0 - 3% by Volume.

\*\* Warning: Due to the presence of silicon compounds, contamination of other areas by e.g. overspray should be avoided by masking. This can result in failure in those areas.

Brushes, rollers and spray lines should be dedicated or be thrown away. Mask areas close by to avoid overspray.



### Overcoatability

Temperature	Drying time (at DFT 150 µ)	Overcoating interval (at DFT 150 µ)	Induction time	Pot life	Remarks
-5 °C	-	-	-	-	-
0 °C	-	-	-	-	-
5 °C	Surface dry:50 min Hard dry 8 hours	Min.: 8 hours Max.: 5 days	-	-	-
10 °C	Surface dry:40 min Hard dry 6 hours	Min.: 6 hours Max.: 5 days	-	-	-
20 °C	Surface dry:30 min Hard dry 5 hours	Min.: 5 hours Max.: 5 days	-	-	-
30 °C	Surface dry:20 min Hard dry 4 hours	Min.: 4 hours Max.: 5 days	-	-	-

Note: Drying times and overcoating intervals will increase with increasing film thickness applied.  
Before re-coating, always check that the existing paint film is 'through' dry.

**Safety information:** If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

<b>Definitions:</b>	<b>Tolerances:</b>	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
	<b>Spreading Rate:</b>	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
	<b>Volume Solids:</b>	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697 if not otherwise indicated.
	<b>Overcoating Intervals:</b>	The intervals given assume preparation consistent with good painting
	<b>Hard dry:</b>	The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer.
	<b>V.O.C.:</b>	Theoretical quantity of volatile organic compounds in g/l.

**Disclaimer:** Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.