

# CMP BIOCLEAR R

(CMP BCL R)

## PRODUCT DESCRIPTION

CMP BIOCLEAR R is one pack silicone elastomer foul release coating.

## PRODUCT INFORMATION

Type	Silicone elastomer foul release coating				
Recommended Use	As a finish coat in the CMP BIOCLEAR foul release system. Especially designed for rudder and propeller of ocean-going vessels and fast coastal vessels.				
Type of binder	Silicone elastomer				
Mixing Ratio	-				
Color	Light Gray, Red Brown				
Flash Point	26.5 ℃				
Solids by Volume	65% ± 2 (Test Method : ISO-3233)				
VOC	325 g/l (Korea Air Conservation Act)				
Coverage(Theoretical)	3.25 m <sup>2</sup> /l [0.308 l/m <sup>2</sup> ] at D.F.T 200μm				
Wet Film Thickness	308 μm				
Dry Film Thickness	200 μm				
Drying Time (at D.F.T. 200μm)	Temperature	5℃	10℃	20℃	30℃
	Surface Dry	6 hrs.	3 hrs.	2 hrs.	1 hr.
	Hard Dry	14 hrs.	10 hrs.	7 hrs.	5 hrs.
Painting Interval (at D.F.T. 200μm)	Minimum	14 hrs.	10 hrs.	7 hrs.	5 hrs.
	Maximum*	-	-	-	-
Pot Life		-	-	-	-
Dry to launch	Minimum	24 hrs.	20 hrs.	14 hrs.	8 hrs.
Thinner	RAVAX THINNER, SILICON THINNER A EPOXY THINNER A(for cleaning only)				
Method of Application	Airless spray, Brush				
Condition of Application	Temperature	: Minimum 0 - 35 ℃			
	Humidity	: Maximum 40 ~ 85 % R.H.			
	For Airless spray ;				
	Tip No.	: GRACO 519 - 721			
	Paint output pressure	: Min. 20.0 MPa			
Preferable Preceding Coats	CMP BIOCLEAR SG-R				
Preferable Subsequent coats	CMP BIOCLEAR HB, CMP BIOCLEAR PLUS				
Packaging	One pack product				

\* Kindly consult CSP sales office.

**TECHNICAL DATA (at 200 $\mu$ m)**

Temp (°C)		-5	0	5	10	15	20	25	30	35	40
Item											
Set to touch		-	10H	6H	3H	2.5H	2H	1.5H	1H	45m	
Dry to recoat	Min.	-	20H	14H	10H	8.5H	7H	6H	5H	4H	
	Max.*)	-	-	-	-	-	-	-	-	-	
Dry to hard		-	20H	14H	10H	8H	7H	6H	5H	4H	
Dry to immerse	Body	-	38H	24H	20H	17H	14H	11H	8H	7H	
	Touch-up	-	38H	24H	20H	17H	14H	11H	8H	7H	
Pot life		-	-	-	-	-	-	-	-	-	
Shelf life (M)		-	18M	18M	18M	18M	18M	18M	18M	18M	
Max. heat resistance		60°C (Non-continuous)									

Abbreviation ; Y : Year, M : Month, D : Day, H : Hour, m : Minute

**Notes :**

\*) : In case of dry to recoat date, this is data of subsequent coating of silicone on CMP BIOCLEAR R.

Please contact our sales team when applying below 5°C.

**RECOMMENDABLE SURFACE PREPARATION**

All surfaces to be free from various contaminants (oil, grease, dust, spray dust and etc.) and keep surfaces dry.  
Kindly consult CSP sales office for specific information.

**SAFETY PRECAUTIONS**

In order to ensure safe use of our product, please be sure to follow the safety precautions indicated on the SDS and the paint container. If you need further explanation, do not hesitate to consult our personnel or our local distributors before buying, opening, using, or disposing the product. Since product contains flammable materials, keep away from sparks and open flame. No smoking should be permitted in the area on painting.

Wear an appropriate protector (eye and face protection, protective clothing, barrier creams, etc) when mixing, applying, or drying the paint. If products come into contact with the skin, wash thoroughly with warm water and soap or suitable cleaner. If the eyes is contaminated, irrigate with water and seek medical advice immediately.

**DISCLAIMER**

The information, including data, specifications, directions and recommendations, contained in this Data Sheet describes the experiment results under controlled or specially defined conditions and we do not guarantee that the Products, when used under the actual conditions of any intended use, will produce the same results. The performance of the Products in their actual use is affected by various factors, and the User must judge whether the Products are suitable for specific uses. We do not guarantee the performance of the Products under any specific operation environment other than the performance of the Products under the conditions described in this Data Sheet.

The content of this Data Sheet, which is intended for facilitation of the User's understanding and convenience of use of the Products, is subject to change at any time without prior notice. We use our best efforts to reflect the latest and most accurate information in this Data Sheet, but we will not bear any liability whatsoever relating thereto. The User must confirm that the Data Sheet is the latest version prior to using the Products.

We do not guarantee the performance or safety of the Products when used for a purpose or use other than what is described herein. Nor will we be liable for any explanation or guarantee provided by any distributor or sales agent with respect to the Products, other than what is described in this Data Sheet.

Furthermore, each of the Products described herein is composed of various chemical substances, some of which may contain toxic and/or harmful ingredients and may cause harmful results as a result of misuse or overuse of the Products. For specific causes of risk, conditions of use, harmfulness, etc. of each of the Products, please carefully read, prior to use of the Products, the MSDS (Material Safety Data Sheet) inserted in each of the Products. We will not be liable for any accident that may be caused in violation thereof.