Direct application to tar epoxy / epoxy coating
after high pressure water washing only !

CMP NOVA SUPERECO

Epoxy Heavy duty coating for repairs to water ballast tanks

- Reduction of the number of work processes
- Low VOC
- Light colour

CMP CHUGOKU MARINE PAINTS, LTD.

Fewer Work Processes Lead to Cost Savings !

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Due to the anticorrosive properties, tar epoxy coating materials were used in continuously submerged conditions, often exposed to severe corrosive environments. With the increasing awareness of environmental issues and human health concerns, the current trend is elimination of the use of tar epoxy coatings, however, some existing ships have their water ballast tanks coated with tar epoxy coatings. When it comes to repairing these tanks, several pretreatment procedures such as sand blasting may be required prior to coating, resulting in high cost and in an increase in the number of processes.

CMP NOVA SUPERECO not only contributes to cost savings and achievement of fewer processes but also provides benefits in reducing VOC, safety and health aspects. This light coloured, high solids product exhibits excellence in anticorrosion performance and can also be used for repairing epoxy coatings.

Tar epoxy coating

CMP NOVA SUPERECO

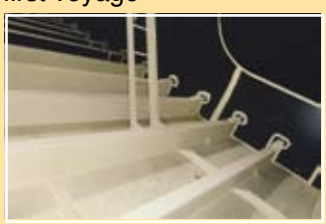
Use

Repair of water ballast tanks

Features

- Direct application to Tar epoxy/epoxy coating after high pressure water washing
- There is no need to sand blasting
- Light colour
- Low VOC
- Excellent anticorrosive property
- High solid type – 250 – µm DFT per coat

Coating conditions after the first voyage



Colour

Light grey, Buff

Standard specification

		Corrosion, film defect	Intact film
Process	Surface preparation	High-pressure water washing Hydrojet (More than 15,000 PSI) or Power tool (More than St2)	Dry before application of coating
	First coat	**CMP NOVA SUPERECO** 150μm (1 coat)	
	Second coat	**CMP NOVA SUPERECO** 150μm (1 coat)	

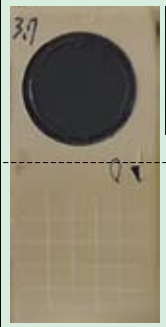

Arrival condition


After high pressure water washing


First coat and stripe coat


Second coat

Laboratory test

	CMP NOVA SUPERECO epoxy coating for Ballast water repairing	Conventional epoxy coating
Adhesion property on tar epoxy Water washing DFT 300 mm X 1 Pull-off test (ISO-4624)	  **Good** Cohesion failure in tar epoxy	  **Poor** Adhesion failure between Conventional epoxy and tar epoxy
Cross-cut test (ISO-2409)	**Good** 100% Remaining	**Poor** Peeling
Initial adhesion after application ISO Sa 2.5	**Good**	**Good**
Impact resistance 500g /1Kgx 50cm (Du-Pont)	**Good**	**Good**
Bending resistance 10mm φ (Bending test)	**Good**	**Good**
High temp. and high humid condition 50℃/95%RH × 3 months	**Good**	**Good**
Salt immersion test DFT 300 mm X 1 Surface preparation : Sand blast steel (ISO Sa 2.5) 40℃, 3%NaCl aq immersion for 3 months (JIS K-5600 6-1, ISO 2812-1)	 **Good**	 **Good**

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