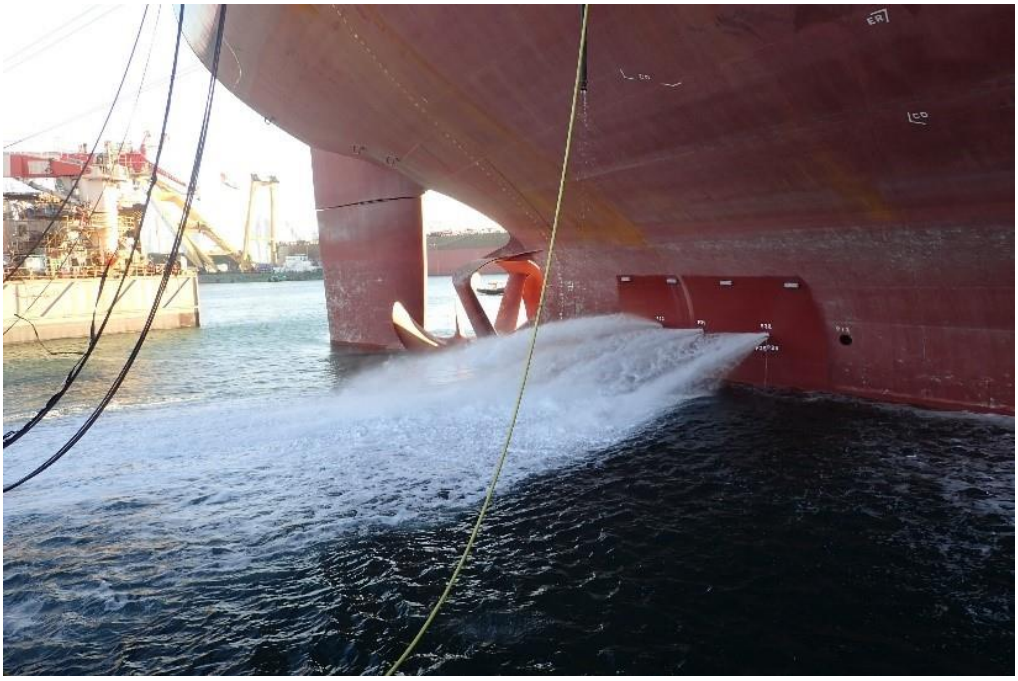
Scrubber outlet (Overboard Pipe and Surrounding Hulling)

Application:	Protective double-layer coating, resistant to scrubber washing water and other harsh environment.
Place:	Drydock World Dubai
Date:	December 2019
Job and report done by:	Job, DWD - Report, Wencon supervising consultant
Wencon products used:	Wencon Hi -Temp



1st stage:

Surface Preparation Comply to ISO8501

1. Clean and degrease all surfaces, including cut-outs, rat holes and welds shall be rounded to a radius of at least 2 mm, weld splatter removed
2. Weld seams burned, and rusty areas blast cleaned to min ISO-Sa 2½ or power tool cleaned to min SPSS-Pt3 prior grit blasting
3. Rough to an angular profile between 75 – 100 microns (in accordance with ISO 8503 parts 1 and 2)
4. Abrasive blasting to a cleanliness of white metal (Sa3/SP5) or near-white metal (Sa 2½/SP10) followed by removal of all abrasive residues
5. The purity of the sandblasting is visually checked
6. Bressler Sampler test for measuring soluble salts/chlorides in the steel surface (ISO 8502-6) limit value <20 mg m2
7. Distance to dew point of minimum 3 degrees Celsius throughout the application process
8. Optionally measurement of any acid contamination of the steel surface is measured (iron sulfate) with KTA scat test kit, limit value is <10 micrograms / cm^2

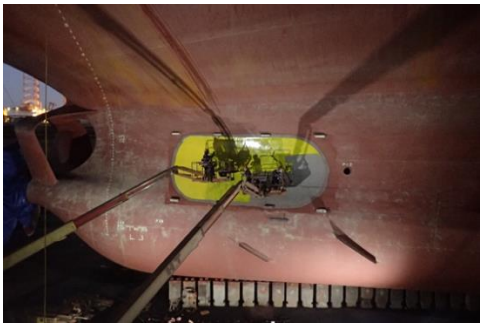
Atmospheric conditions throughout the application:

- No final blast cleaning shall be performed if the humidity at the surface is above 85%.
- No coating shall be applied when the relative humidity of the air is outside the limits given by the coating manufacturer.
- No coating shall be applied and dried during fog, mist, rain, when the steels temperature is below the coating manufacturer's specification/recommendations, or if the steel surface temperature is less than 3^0C above the dew point.

2nd stage:

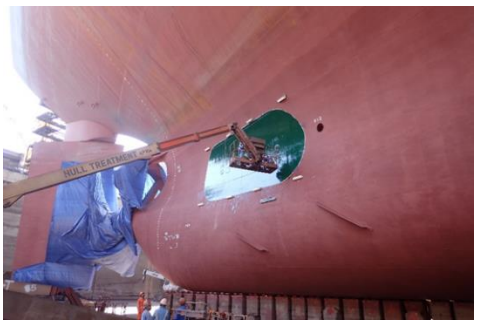
Wencon Product application:

1. Surface to be applied shall appear dust and grease free before applying the products
2. Stripe coat of edges and welding's recommended if considered beneficial by applicator.
    - Edges of beams, all sharp edges, excessively irregular welds, etc. shall be stripe coated.
    - Stripe coating shall be prior to each coat.
3. Wencon Coatings is recommended to be applied as a double coat system. The overcoating time can vary from one to three hours depending on temperature.
4. The second coat must be applied while the first coat is still tacky (wet in wet application).
5. Curing will take place in 6 -24 hours at 20°C (68°F) and faster by higher temperatures.



Application of first layer of Wencon coating is in progress

Application of first layer coatings completed



Application of second layer completed

3rd stage:

Overcoating

1. Wencon's epoxies are in general compatible with other epoxy-polyamide / amine paint's and polyurethane coatings substrates bond well to each other if the surfaces are clean and slightly abraded.

2. Over & recoating is optimally performed in the timeframe between tack free and cured.

3. Recement recoat interval at (20°C/68°F)
    - Min: 4 hours
    - Maximum: 8 hours
    - Time interval are extended at lower temperatures and shortened at higher temperatures.

4. In case curing takes place before over/recoat, it is recommended to roughen the surface rye as possible to ensure optimum adhesion under the circumstances.

5. Overcoating using foreign paints and coatings, it is recommended to consult the supplier to obtain recommendations for overcoating of Wencon epoxy coatings.