

Ålesund 30mai 2022

## «BF Utnefjord» VARD LANGSTEN



*Surface preparation and application report car deck area  
(application of Jotacote UNI N10 ALRT & Jota Armour 7035).*

Report prepared by

*Mareno Ernes*

Mareno Ernes



**VISIT REPORT Maintenance and repair.**

<b>Ship</b> BF” UTNEFJORD”	<b>Shipyard:</b> VARD LANGSTEN	<b>Report No:</b> 01.	
<b>Owner:</b> Boreal Sjø	<b>Location:</b> Tomrefjord	<b>Page 1 of 7</b>	
<b>Area:</b> Car deck #56-0	<b>Contractor:</b> North Side A/S	<b>Date:</b> 21.05-25.05.22	
<b>Stage at time of visit:</b> Surface preparation/cleaning inspection		<b>Application:</b> Airless spray.	
<b>Product Name:</b>	<b>Coat No.:</b>	<b>Colour</b>	<b>D.F.T.</b>
Jotacote UNI N10	1	AL	200 microns
Jota Armour WG	2	Grey Ral 7035	1000 microns.
<b>NAME:</b>		<b>COMPANY:</b>	
Bjarte Bakken		VARD LANGSTEN AS	
Steinar Fitjar (Surface prep only).		Boreal Sjø A/S	
Mareno Ernes		JOTUN AS	
<b>REMARKS:</b>			
<p><u>Surface preparation</u>  <b>16.05.22 #56-#-56</b> High pressure water washing with detergent and steam water cleaning accepted to start further preparation.  <b>21.05.22 #56-#0</b>            Blast cleaning with airless blast cleaner machine to standard Sa 2,5 ISO 8501-1 are accepted except from:</p> <ul style="list-style-type: none"> <li>- Some few locations with rust on forward area, these locations were sanded with sandpapering prior to application.</li> <li>- From ship shell plating sb/ps side and approx. 0,5m into car deck “were no access for airless blasting machine” these locations will be manually prepared with rotary cleaning tools where rust penetration is visible and overcoated with Jotacote UNI N10/ Jota Armour.</li> <li>- Around hatch coaming on approx. # 45 not possible to blast clean due to water insides in frame water is coming up due to vacuum when driving machine over. Some paint remains on these surfaces also on locations around main hatch port #52.</li> </ul> <p><b>24.05.22 #56-#-56 DFT inspection of 1<sup>st</sup> coat Jotacote UNI N10 ALRT</b>            - 122 readings mean average =307 microns. DFT are according to specification or over and accepted.</p> <p><b>24.05.22 Cleaning inspection prior to application Jota Armour.</b>            - Minor locations with steel shot from blasting process to be removed.</p>			



#### **24.05.22 Application of Jota Armour**

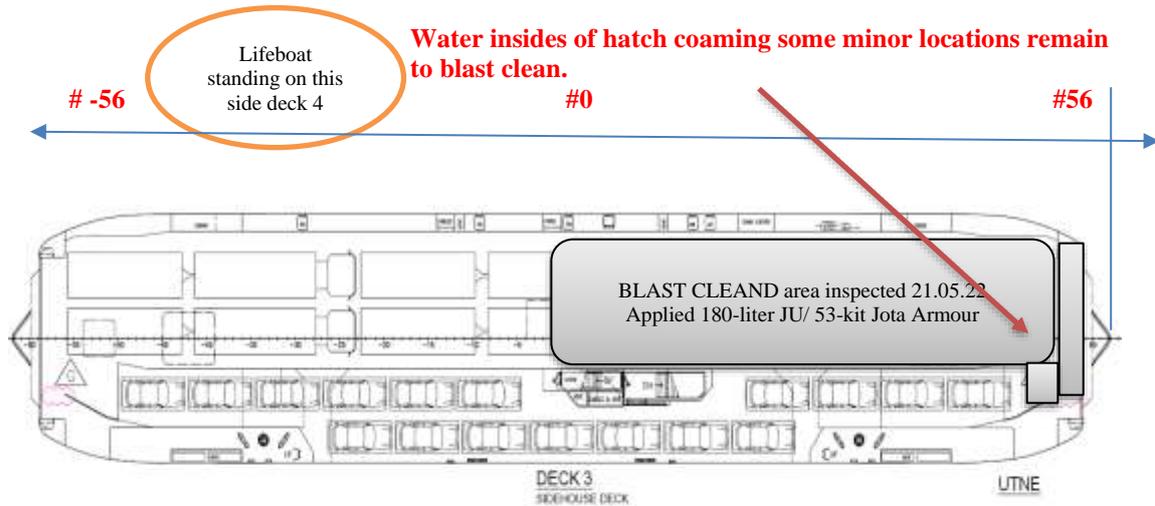
Cleaning prior to application Jota Armour accepted and application starts and ends approx. time 20:00-22:00 totally used approx. 53 kits.

#### **25.05.22 Visual inspection after application Jota Armour.**

Jota Armour applied on all areas on main deck #0-#52, car ramps/ upper car deck not included as agreed with owner's representative. Jota Armour recommended to be fully cured according to TDS prior to be used.

#### **26.06.22 Marking of car deck**

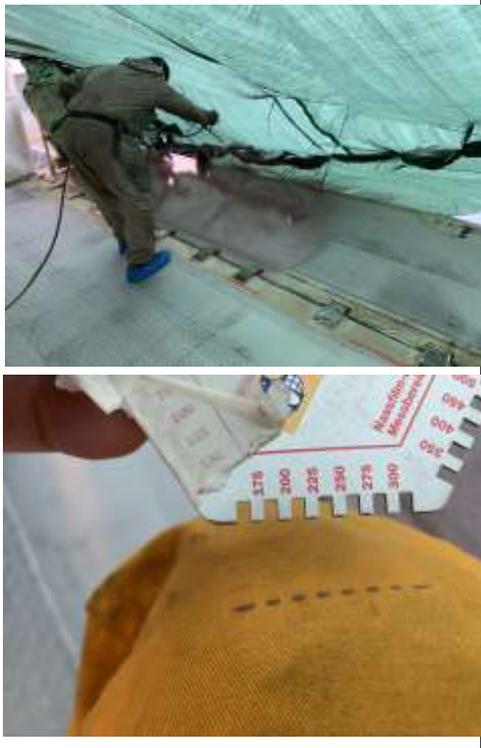
Marking of car deck traffic yellow and signal red preformed under shipyards supervision.



### SURFACE PREPARATION OF CAR DECK #56-#0

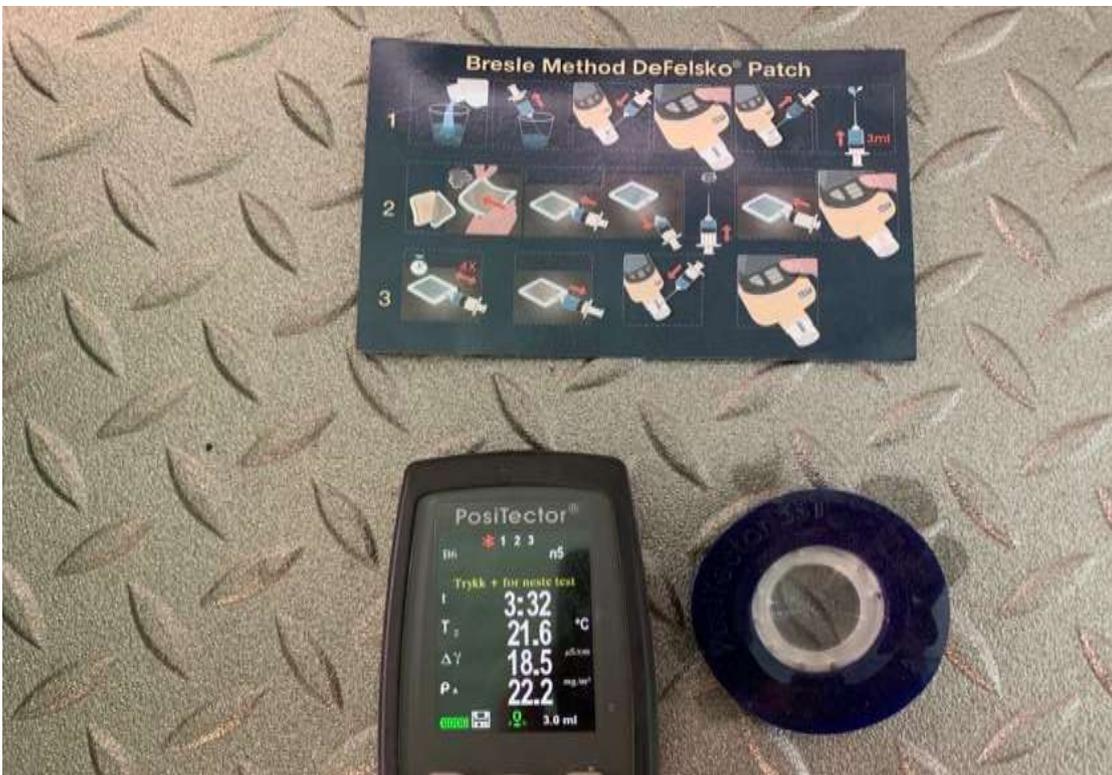
Conditions				
<b>Method</b> Airless blast cleaning machine	<b>Standard</b> Sa 2,5	<b>Abrasive</b> Steel shot	<b>Date</b> 21.05.22	<b>Time</b> 4:16 pm
Surface Temp. 12,5 C°		Air Temp. 13,6C°	Relative Humidity 76,1C°	Dew Point 9,5C°

Application of car deck #56-#0

COAT NO.	1	2	Photos of application
Date / Time	21.05.22	24.05.22	
Method	Airless blasting		
Surface Temp.	12,6c°	14,3c°	
Air Temp.	14,6c°	15,8c°	
Relative Humidity	71,1%	68,6%	
Dew Point	9,4c°	10,1c°	
Product Name	Jotacote Uni N10	Jota Armour	
Colour	ALRT	Grey Ral 7035	
Batch No. - Base	2779049-1-* -1:2	2767044-1-* -1:2	
Batch No. - Hardener	2758989-1-* -1:2	2770025-1-* -1:2	
Drying Temp./ Humidity	12c°	14c°	
Wet Film Thickness	Above 300 mic.		
Dry Film Thickness	122 readings mean average =307mic.	53 kit	



Generally picture of car deck after blast cleaning.



Bresle test results accepted 22,2mg/m<sup>2</sup>



Generally picture after application Jotacote UNI N10 ALRT



Jota Armour ready to be applied.



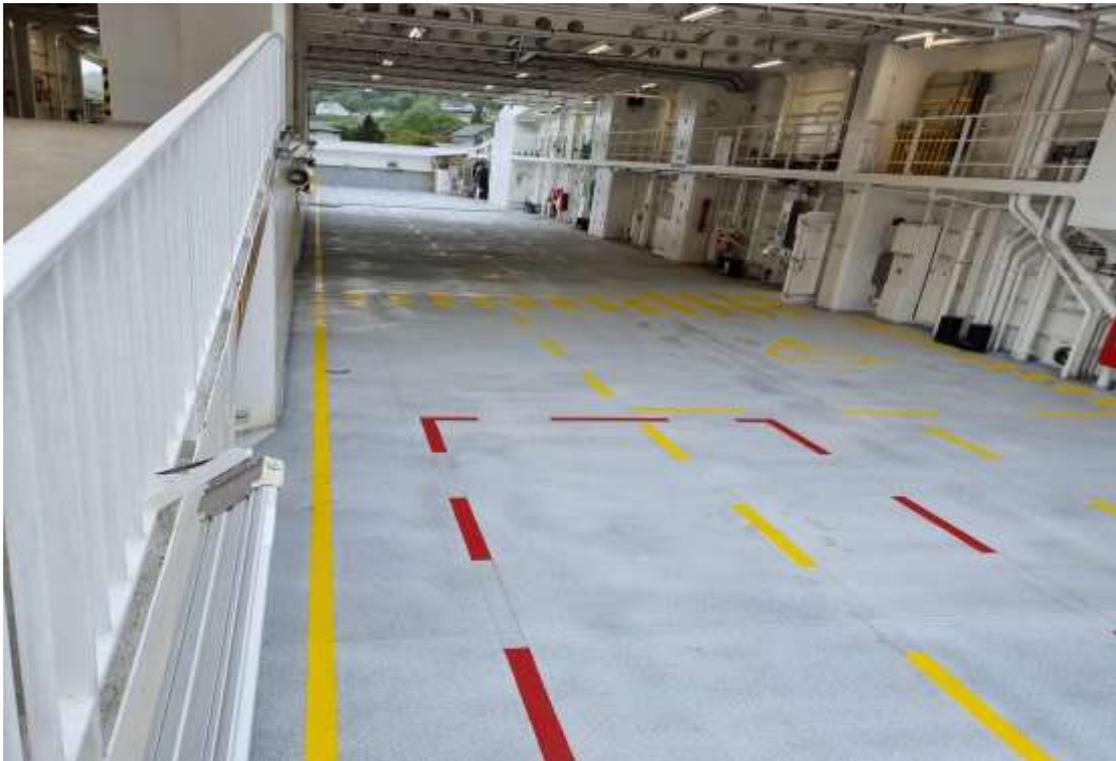
Application of Jota Armour.



Application of Jota Armour.



Application of Jota Armour completed.



Marking of deck area finished.

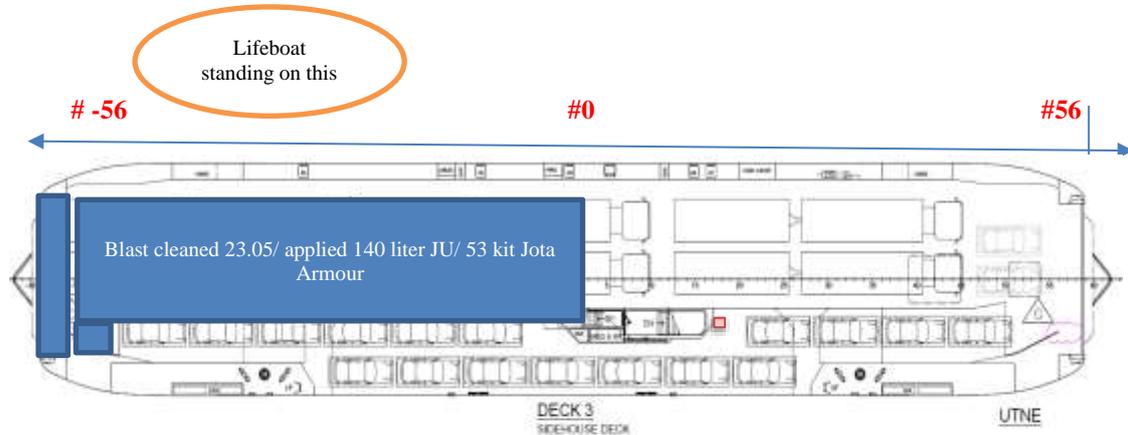
Jotun Coatings

*Mareno Ernes.*

**VISIT REPORT Maintenance and repair.**

<b>Ship</b> BF” UTNEFJORD”	<b>Shipyard:</b> VARD LANGSTEN	<b>Report No:</b> 02.	
<b>Owner:</b> Boreal Sjø	<b>Location:</b> Tomrefjord	<b>Page 1 of 4</b>	
<b>Area:</b> Car deck	<b>Contractor:</b> North Side A/S	<b>Date:</b> 23.05-25.2022	
<b>Stage at time of visit:</b> Surface preparation/cleaning inspection		<b>Application:</b> Airless spray.	
<b>Product Name:</b>	<b>Coat No.:</b>	<b>Colour</b>	<b>D.F.T.</b>
Jotacote UNI N10	1	AL	200 microns.
Jota Armour	2	RAL 7035	1000 microns.
<b>NAME:</b>		<b>COMPANY:</b>	
Bjarte Bakken		VARD LANGSTEN AS	
NONE		Boreal Sjø A/S	
Mareno Ernes		JOTUN AS	
<b>REMARKS:</b>			
<b>Surface preparation &amp; application Jotacote UNI N10 Car deck #0-#-56</b>			
<u>Surface preparation</u> <b>16.05.22 #56-#-56</b> High pressure water washing with detergent and steam water cleaning accepted in order to start further preparation.			
<b>23.05.22 #0-#-56</b> Blast cleaning with airless blast cleaner machine to standard Sa 2,5 ISO 8501-1 are accepted except from: <ul style="list-style-type: none"><li>- From ship shell plating sb/ps side and approx. 0,5m into car deck “were no access for airless blasting machine” these locations will be manually prepared with rotary cleaning tools where rust penetration is visible and overcoated with Jotacote UNI N10/ Jota Armour.</li><li>- Some old Jota Armour remains on main hatch port #-56.</li></ul>			
<b>24.05.22 #56-#-56 DFT inspection of 1<sup>st</sup> coat Jotacote UNI N10 ALRT</b> - 122 readings mean average =307 microns. DFT are according to specification or over and accepted.			
<b>24.05.22 Cleaning inspection prior to application Jota Armour.</b> - Minor locations with steel shot from blasting process to be removed.			
<b>24.05.22 application of Jota Armour:</b> Cleaning of car deck #0-#56 accepted, application of Jota Armour start- ends from time 22:00-24:00			

**25.05.22 Visual inspection Jota Armour** applied on all areas according to specification except from car ramps/ upper car deck. Recommended to let Jota Armour cure according to TDS prior to use.

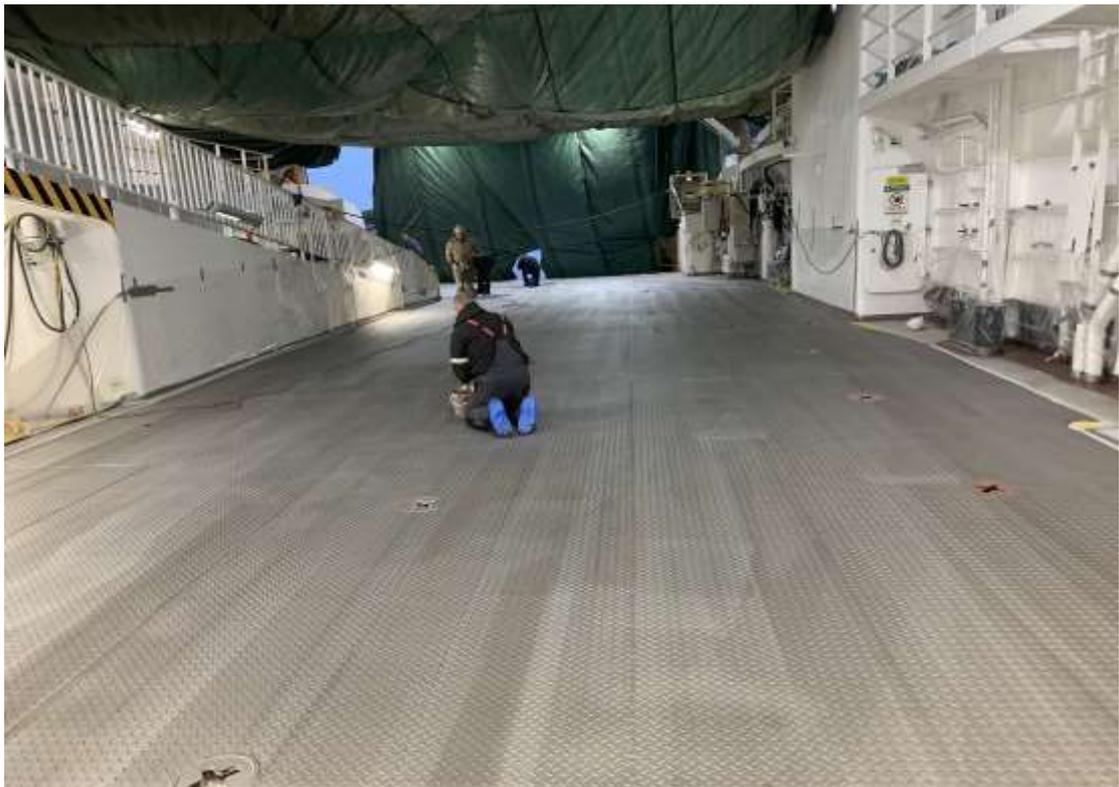


**SURFACE PREPARATION OF CAR DECK #-56-#0**

Conditions				
<b>Method</b> Airless blast cleaning machine	<b>Standard</b> Sa 2,5	<b>Abrasive</b> Steel shot	<b>Date</b> 23.05.22	<b>Time</b> 9:59 pm
Surface Temp. 16,7C°		Air Temp. 16,3C°	Relative Humidity 62,3C°	Dew Point 9,0C°

**Application of car deck #-56-#0**

COAT NO.	1	2	Photos of application
Date / Time	23.05.22	24.05.22	
Method	Airless blasting		
Surface Temp.	16,6c°	13,7c°	
Air Temp.	15,6c°	15,0c°	
Relative Humidity	65,0%	70,1%	
Dew Point	9,0c°	9,6c°	
Product Name	Jotacote Uni N10	Jota Armour	
Colour	ALRT	Ral 7035	
Batch No. - Base	2779049-1-*-1:2	2767044-1-*-1:2	
Batch No. - Hardener	2758989-1-*-1:2	2770025-1-*-1:2	
Drying Temp./ Humidity	15c°	12c°	
Wet Film Thickness	Above 300 mic.		
Dry Film Thickness	122 readings mean average =307mic.	53 kit	



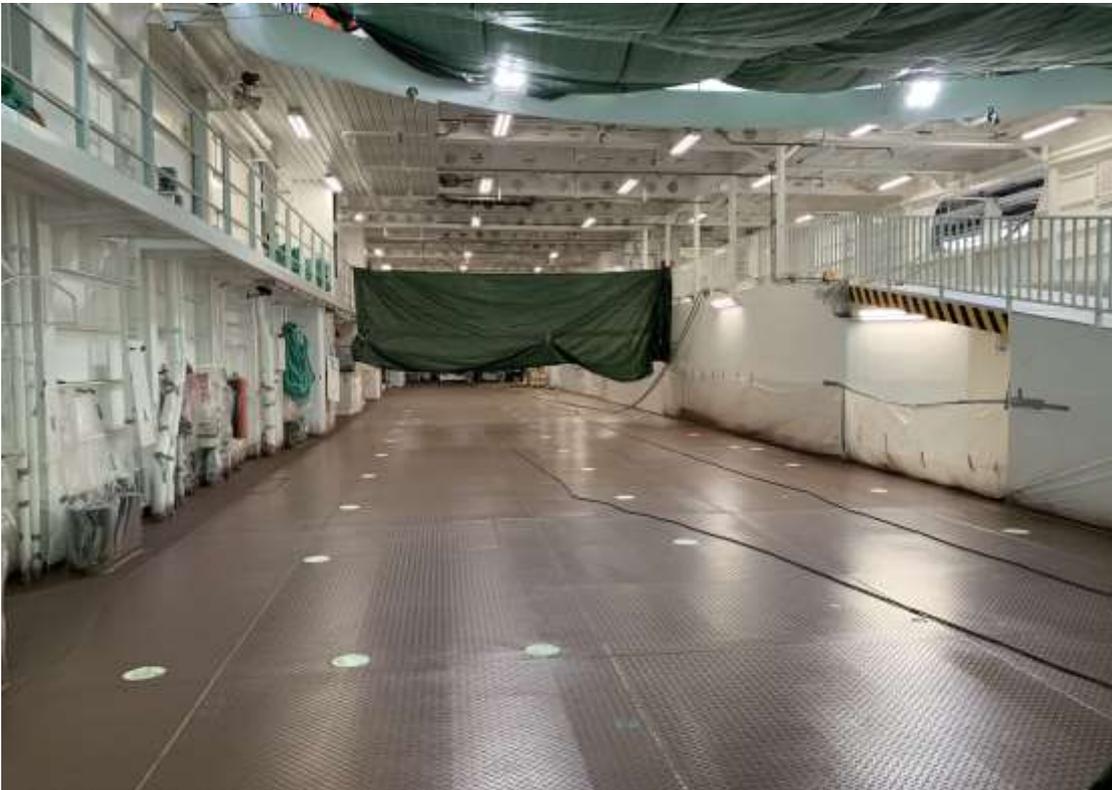
Generally, picture of achieved blasting standard



Bresle test results accepted 13,3mg/m<sup>2</sup>



Cleaning /removal of minor locations with steel particles “abrasives from blast cleaning”.



General picture after application Jotacote UNI N10 ATRT.



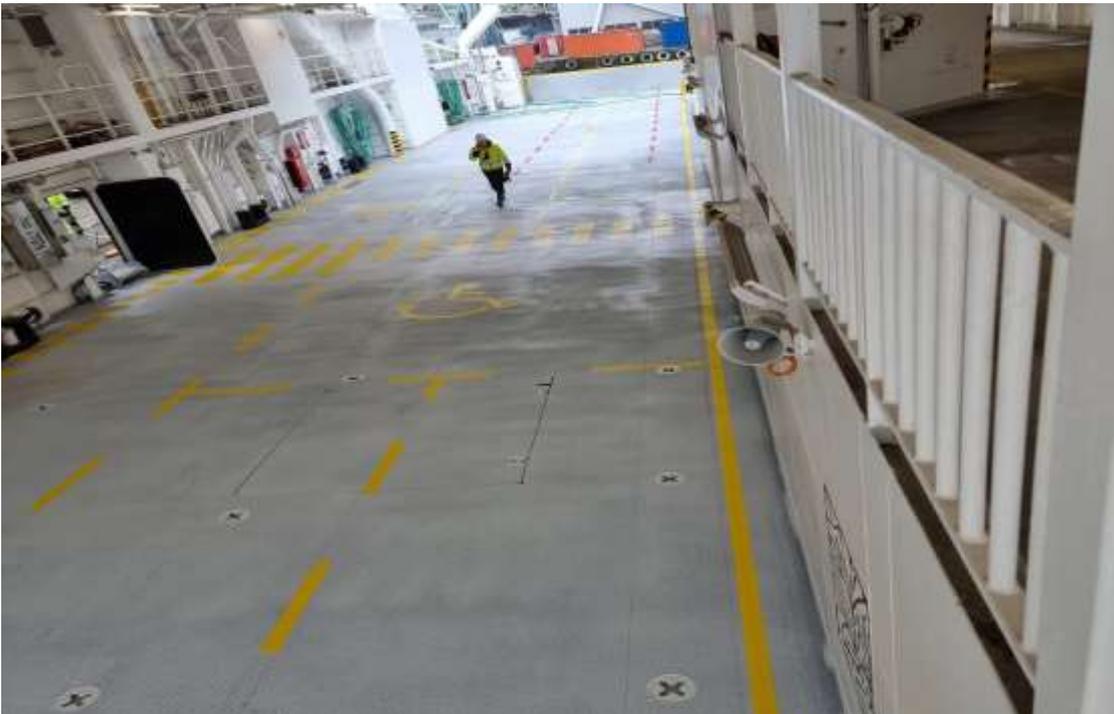
Cleaning of deck area during application Jota Armour.



Application Jota Armour



Application of Jota Armour completed.



Marking of deck area finished.

Jotun Coatings

*Mareno Ernes.*