

Attn: Mr. Kees Zaal, Transocean Coatings Huygensstraat 3 2652 XK, Berkel en Rodenrijs The Netherlands Shell Global Solutions International P.O. Box 38000 1030 BN Amsterdam The Netherlands Tel 020-630 3554 Fax 020-630 2989 Email venkateswara.swamy@shell.com Internet http://www.shellglobalsolutions.com

Our ref:

Contract No: 122482

5th July, 2022

To whom it may concern,

With reference to above-referred contract, Shell Global Solutions International B.V. hereby confirm that we have carried out a one-time technical assessment for Transocean Coatings in the form of performance testing of "Protective Coatings for onshore and offshore facilities" according to Shell DEP 30.48.00.30-Gen. "Protective coatings for onshore and offshore facilities", February 2021.

The Transocean Coatings applied the coating systems that were subjected to the required test program according to the aforementioned DEP. The technical assessment program is described in detail in Shell Global Solutions report SRN-03212 for all the newly assessed products.

The results of the technical assessment shall be included in the approved coating systems into our global Technically Accepted Manufacturers and Products (TAMAP) database for Coatings. Such listing shall, subject to the conditions set out in Article 3.2 of the above-referred contract, be maintained till 31st July 2027 from the date of this letter.

The approved coating system for Transocean Coatings are listed in the Table 1 given below. The list of coating systems given in Table 2 is for informative only.

Please note that in assessing that the listed Transocean Coatings are compliant with the afore mentioned DEP, we do not warrant the quality of the goods manufactured or delivered by Transocean Coatings for the fitness for purpose of such goods.

Yours sincerely

Shell Global Solutions International BV

Venkateswaraswamy Gomatham,

Senior Materials & Corrosion Engineer SME-Coatings P&T

Project & Technology, Project & Engineering Services

Shell Technology Centre Bangalore (STCB)

Established at The Hague, Amsterdam Office Badhuisweg 3, 1031 CM Amsterdam Commercial Register, Amsterdam 33276928 VAT Reg. No. NL004790996B59

Table 1: Approved coating systems for offshore and onshore facilities

SI. No	Environment	System code	Coating system	NDFT (μm)
1	Wetted and intermittently - wetted zone, design temperature < 50 °C	FC1N & LC5N	Transozinc Silicate 152 + Transpoxy Masterbond BT + Transpoxy Masterbond BT	75 + 175 + 250 =500
2	with Cathodic protection system	FC1N & LC5N	Transozinc Silicate 152+ Transpoxy Barrier FF + Transpoxy Glascote 440DTM	75+125+300 = 500
3	Wetted and intermittently - wetted zone, design temperature < 50 °C without cathodic protection	FC1N/M & LC5N/M	Transpoxy HB-AL+ Transpoxy HB	250+250 = 500
4	Atmospheric zone -35 °C up to + 120 °C	FC2N & LC1N	Transozinc Silicate 152 + Transpoxy MasterMIO + Transpoxyl PX 370	75+150+75=30 0
5	Atmospheric zone -35 °C up to + 120 °C	FC2N & LC1N	Transozinc Silicate 152 + Transpoxy Masterbond BT + Transpoxyl PX 370	75+150+75=30 0
6	Atmospheric zone -35 °C up to + 120 °C	FC2N & LC1N	Transozinc Epoxy Primer 155 + Transpoxy Masterbond BT + Transurethane Shield	50+175+75=30 0
7	Atmospheric zone -35 °C up to + 120 °C	FC2N/M & LC1N/M	Transpoxy Barrier FF-AL + Transpoxy MasterMIO + Transocean NISO 360 finish	100+150+50 = 300
8	Atmospheric zone -35 °C up to + 120 °C	FC2M & LC1M	Transpoxy Barrier FF + Transpoxy Masterbond + Transurethane Shield	100+125+75 = 300
9	Atmospheric zone –35 °C up to + 120 °C insulated	FC2 N/M	Transpoxy Tankguard 118+ Transpoxy Novacure 488	100+200 =300
10	Atmospheric zone -35 °C up to + 120 °C insulated	FC2N/M	Transpoxy Novacure 488+Transpoxy Novacure 488	150+150=300
11	Atmospheric zone >120 °C up to 200 °C insulated	FC2N/M	Transpoxy Tankguard 458 +Transpoxy Tankguard 458	2x150 =300

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12	Atmospheric	FC3N &	Transozinc Silicate 152 +	75+2x25=125
	zone >120 °C up to 200 °C un-insulated	LC2N/M	Transosil finish	
13	Atmospheric	FC4N/M	Transozinc Silicate 152 +	75+35=110
1.0	zone >200 °C up to	I.C.A.IA\IM	Transosil AL-HR	/3733-110
	450 °C	*	X X CLARO OF A LARGE LAR	
14	Atmospheric	FC4N/M	Transozinc Silicate 152 +	50+75=125
	zone >200 °C up to	& LC3M	Transotherm 581	
	450 °C			
15	Decks and floors/	FC6M &	Transpoxy Barrier FF +	125+150+75 =
	light and normal duty	LC7M	Transpoxy Barrier 218 +	350
4.0	D 1 1/2 /	TICKNI / TIK	Transurethane Shield	
16	Decks and floors/	FC6N/M	Transozinc Epoxy Primer	50+200+75=32
	light and normal duty	& LC7N	155 +	5
			Transpoxy Masterbond BT	
			Transurethane Shield	
17	Decks and floors/	FC6M &	Transpoxy Barrier FF +	125+150+75 =
	light and normal duty	LC7N/M	Transpoxy Masterbond +	350
	, i	1	Transurethane Shield	
18	Steel floors/ heavy	FC7N	Transozinc Epoxy Primer	50+150+175+7
	duty and helidecks		155 + Transpoxy Barrier	5 = 450
			218 + Transpoxy Barrier	
			218 NS + Transurethane	
40	0. 10. (1		Shield *	
19	Steel floors/ heavy duty and helidecks	FC7M	Transpoxy Barrier FF +	125+150+175+ 50 = 450
	duty and nendeths		Transpoxy Barrier 218 + Transpoxy Barrier 218 NS	30 = 430
			+ Transurethane Shield	
20	Submerged carbon	FW1N	2 x Transpoxy Glascote	2x300=600
	steel items: -10°C to		440DTM	4.15
	50°C without			
	cathodic protection			
21	Submerged carbon	FW2N	2 x Transpoxy Novacure	$2 \times 150 = 300$
	steel items: 50 °C to		488	
22	120°C	ECANI/BA	Two ways IID AI	2-250-500
<i>L L</i>	Wetted and intermittently -	FS1N/M &	Transpoxy HB-AL+ Transpoxy HB	2x250=500
	wetted zone, design	LS4N/M	нанэроху нь	
	temperature < 50 °C	27. 114/ IVA		'
	with CP for onshore			
23	Wetted and	FS1N/M	Transpoxy Uniprimer + 2x	75+200+225
	intermittently -	&	Transpoxy Glascote 440	=500
	wetted zone, design	LS4N/M		
	temperature < 50 °C			
	with CP for onshore			
24	Atmospheric zone	LS1 N/M	Transpoxy Barrier FF +	125 + 75=200
	-35 °C up to + 120 °C		Transurethane Shield	
25	insulated	ECONI /BA	2vTrancoavy Tankaras	27125-250
43	Atmospheric exposure 120°C to	FS2N/M &	2xTranspoxy Tankguard 458	2x 125=250
	200°C	& LS2N/M	TJU	
		10214/14		

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26	Buried and Immersed	LS5N/M	Transpoxy Tankguard	100+2x200=50
	plant piping and		118+ 2xTranspoxy	0
	vessels 50°C to 120°C		Novacure 488	
27	Atmospheric zone	LO1 N/M	Transpoxy Barrier FF +	125 + 75=200
	-35 °C up to + 120 °C		Transurethane Shield	
	galvanised surfaces	4.		
28	Topside aluminium	FO1 N/M	Transpoxy Uniprimer	75+200+75
	helidecks – Anti-skid		Transpoxy Barrier 218 NS	=350
			Transurethane Shield	
29	Atmospheric zone	LL1-N	Transpoxy Novacure HR	100+100=200
	-100° up to -35 °C		Transpoxy Novacure HR	
30	Internal tank coating	FT5 N/M	2x Transpoxy Novacure	2x250=500
	for fuels up to 60°C	& LT2	488	
		N/M		
31	Internal tank coating	FT5 N/M	2x Transpoxy Glascote	2x250=500
	for fuels up to 60°C	& LT2	440DTM	
		N/M		
32	Internal tank coating	FT6N/M	2x Transpoxy Novacure	2x250=500
	for crude oil (wet,	&	488	
	sweet and sour) up to	LT1N/M		
	60°C			

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The following coating systems have been tested voluntarily on rusted carbon steel panels with surface preparation of water blast cleaning (Wa2) by Transocean to provide information on performance of specific coating systems for maintenance painting. However, the long-term performance beyond 7 years would not be same as dry abrasive blast cleaned surface. These are not listed in TAMAP as not covered in Shell DEP 30.48.00.31-Gen.

Table 2: Performance coating systems for maintenance painting on rusted steel with water blast cleaning

Sl. No.	Environment	System code	Coating system	NDFT (µm)	Remarks
1	Wetted and intermittently - wetted zone, design temperature < 50 °C	FC1M	Transpoxy HB- AL+ Transpoxy HB	250+250 =500	4200 hrs. test: Passed corrosion creep test and sea water immersion test. Adhesion test: 4.6 MPa
2	Wetted and intermittently - wetted zone, design temperature < 50 °C	FC1M	Transpoxy Master Bond BT-AL +Transpoxy Master Bond BT	250+250 = 500	4200 hrs. test: Passed corrosion creep test and sea water immersion test and Adhesion test:15.3MPa
3	Atmospheric zone -35 °C up to + 120 °C	FC2M & LC1M	Transpoxy Masterbond BT- AL + Transpoxyl PX 370	200+100 =300	4200 hrs. test: Passed corrosion creep test and Adhesion test: 18.8MPa
4	Atmospheric zone -35 °C up to + 120 °C	FC2M & LC1M	Transpoxy HB- AL+ Transocean NISO finish 360	250+50 =300	4200 hrs. test: Passed corrosion creep test and Adhesion test: 6.6MPa
5	Atmospheric zone -35 °C up to + 120 °C	FC2M & LC1M	Transpoxy Barrier FF-AL + Transpoxy MasterMIO+ Transocean NISO finish 360	125+125+ 50=300	4200 hrs. test: Passed corrosion creep test and Adhesion test: 16.2MPa

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