Sea Horse Services Sdn Bhd



Corrosion and deterioration cause many challenges to different types of industries operating under severe outdoor weather conditions.

Industries operating in marine, oil and gas industrial environments, especially located under direct and prolonged exposure to sunlight, rain and saline mildew contributes to extreme corrosion leading to serious consequences. The economic losses of such corrosion and deterioration not only includes cost of replacement but also loss in revenue and penalties due to down time during shut downs.





The areas most susceptible to such corrosion are along pipe supports especially if the supports or pipes are made of metal.

These costly shortcomings and indemnities can be avoided if the pipelines were protected from corrosion with a non-metallic isolator – to isolate the metal and metal contact point

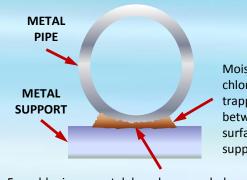


NO.92, JALAN S2C3, GREEN TECHNOLOGY PARK, SEREMBAN 2, 70300 SEREMBAN, NEGERI SEMBILAN D.K. TEL: +606-601 4501 ; FAX: +606-601 4502 ; E-MAIL: 1hydram@gmail.com; WEBSITE: www.1seahorse.net

Yes, we have the solution!

KON-TAC[®] acts as a non-metallic corrosion isolator by creating a barrier between pipe and its support structure. KON-TAC[®] sleeves are available in 1 inch to 24 inches according to pipe's outer circumference, which form a semi-round segment or can be tailored to Client's requirements.

CURRENT PROBLEM



Moisture & chlorides are trapped between pipe surface & pipe support

For old pipes, metal loss happened due to abrasion, corrosion & coating failure. This can lead to pipe leakage if prolonged without any preventive measure. Hence, prior to KON-TAC installation, the pipe will be

lifted up and repair the pitted areas with our paint, Aqua Sealer.

Product Information

At Sea Horse Services Sdn. Bhd., KON-TAC are made from high quality composite materials such as Fibre Reinforced Polymer (FRP) or Kevlar and build up with excellent adhesive agent.

FRP are used for KON-TAC with diameter 1 inch to 6 inches, as the Kevlar are used for diameter 8 inches and above.



Size	Length	Arc (mm)	Thickness	Material
(inch)	(mm)		(mm)	
1	203	21	4	FRP
1.5	203	30	4	FRP
2	203	38	4	FRP
2.5	203	46	4	FRP
3	203	56	4	FRP
4	203	72	4	FRP
5	203	89	4	FRP
6	203	106	4	FRP
8	203	115	4	Kevlar
10	203	143	4	Kevlar
12	203	170	4	Kevlar
14	203	186	4	Kevlar
16	203	213	4	Kevlar
18	203	239	4	Kevlar
20	203	266	4	Kevlar

		SPECIFICATIONS			
		FRP	Kevlar		
Linear Thermal Expansion	ASTM E 831	2.17 x 10 ⁻⁴ mm/mm/ºC	2.79 x 10 ⁻⁴ mm/mm/ºC		
Tensile Strength	ASTM D 3039	4,258 lbf/in ²	11,667 lbf/in ²		
Elongation at Break	ASTM D 3039	0.8%	1%		
Abrasion Tests					
Resistance to Organic Coatings to the effects65cm at load of 911gASTM D2794-04of Rapid Deformation (Impact), Kilogram – meter at maximum impact height of the end point(2lbs)(10 failure to the coating)					
Abrasion Resistance of Organic Coatings Taber Abraser		by Weight Loss = 0.022g Wear Index = 22 (22mg/1000 revolutio /1kg)	ASTM D4060-01		
Scrub Resistance of Paints by Abras Weight Loss No. of Scrub Cycles = 1,441,613 cycles Abrasion Load = 4,135kg		ion Weight Loss = 1g Wear Index = 2.87	ASTM D4213- 96e1 (modified)		

Load Test	
Compression load for FRP Material	16,976 lbf
Compression load for Kevlar material	22,301 lbf
Shear Test	
Compression shear load test to Kon-Tac	11,079 lbf

NO.92, JALAN S2C3, GREEN TECHNOLOGY PARK, SEREMBAN 2, 70300 SEREMBAN, NEGERI SEMBILAN D.K. TEL: +606-601 4501 ; FAX: +606-601 4502 ; E-MAIL: 1hydram@gmail.com; WEBSITE: www.1seahorse.net

APPLICATION METHOD



SIRIM Tests



