



FluoroGrip® is used as a repair and maintenance system designed to extend the life of traditional coating systems by repairing damaged and rusted areas while they are small.

Integument

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Shipboard Testing - Ballast Tanks (Pressure & Vacuum)



Application / Adhesion Test

- Main Ballast tanks on a US Navy nuclear submarine
- Immersion Service - 20 test patches

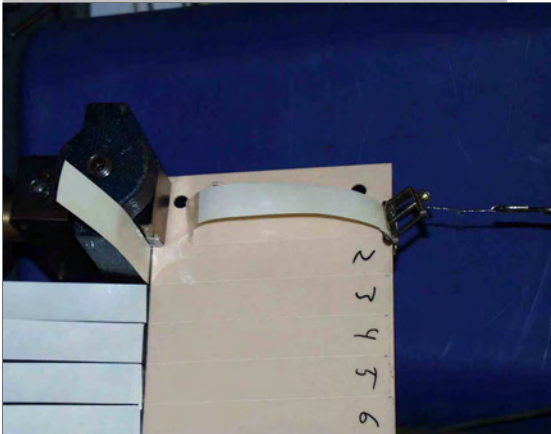
Set A Applied Successfully

- Over new epoxy, aged intact epoxy, bare metal prepared by needle gunning
- Around beam edges / angles

Results

- Test patches still exhibit sound adhesion.
- Evaluation in July 2001: Removal & recoat Edge sealant
- August 2002 inspection & evaluation – no apparent change
- Evaluation in January 2003: Test patches w/ duration of 11 months, 18 months, and 29 months – All in sound condition

Peel Strength, 180° ASTM D 903-98



Test Method

- Adhere test strips to a painted panel, then exert a measured force 180° to the surface to pull off the strips
- Set A applied over three different surface preparations (cured AC, tacky AC, sanded AC)

Conclusions

- No apparent differences in adhesion between surface preparations
- Films show excellent adhesion – Strips elongate prior to adhesive failure

	Std Dev (Lb/in)
Dry	0.2
Tacky	0.3
Sanded	0.3

Salt Spray (Fog) Testing ASTM B 117-85



Purpose: Evaluate Adhesion of Appliqué over Anticorrosive Paint, & in Overlap & Edge Situations

- Accelerated test – 2000 hours
- Set A applied over three different surface preparations (cured AC, tacky AC, sanded AC)

Conclusions

- No apparent differences between surface preparations
- Applique shows slight lifting at scribe due to exposed edge
- Real-time testing underway

ASTM	Rust D 610	Blisters D 714
Dry	10	10
Tacky	10	10
Sanded	10	10
Control	10	10

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