



OMNIA KOLL

COLLANTI - DISTACCANTI - ANTIVIBRANTI
PRODOTTI CHIMICI PER L'INDUSTRIA



CERTIFICAZIONI & TEST



Spray Kits Available



IBEX award winner for liquid Dampening product

Silent RunningTM



The results listed below were part of a test to determine the magnitude of noise reduction that would be achieved using **Silent Running SR-1000** acoustical coating.

Catalina 400 Acoustical Test Results. Tested in the engine room on a Catalina 40 sailboat.

Tested with original foam insulation (4 layer):

At idle	Main salon	78-80 dBa
	Forward compartment	74-77 dBa
2000 RPM	Main salon	80-82 dBa
	Forward compartment	84-85 dBa

3 coats, approximately 0.030" thickness:

At idle	Main Salon	70-71 dBa
	Forward compartment	71-72 dBa
2000 RPM	Main saloon	78-79 dBa
	Forward compartment	79-80 dBa

4 coats, approximately 0.035" thickness:

At idle	Main salon	71-72 dBa
	Forward compartment	71-72 dBa
2000 RPM	Main salon	76-77 dBa
	Forward compartment	77-79 dBa

With the acoustical foam reinstalled:

At idle	Main salon	71-72 dBa
	Forward Compartment	71-72 dBa
2000 RPM	Main salon	77-78 dBa
	Forward compartment	77-79 dBa

Navigator Yachts Acoustical Test Results

We have completed our test with the SR 1000 Acoustical Paint on our 48 Classic bow thruster tunnel which is located under the Forward Stateroom Berth, and have the following results with the Bow Thruster on:

Noise level in stateroom without SR 1000 Acoustical Paint -	78 dB
Noise level in stateroom with SR 1000 Acoustical Paint -	70 dB

Wind Rose Acoustical Test Results

Tested in the lazarett on a Coronado 25 sailboat.

Engine is a 5HP, 4 cycle outboard.

Tested with throttle set at the "start" position, no RPM data available.

Uncoated:

Lazarett cover open: 85 - 85.5 dBa

Lazarett cover closed: 84 - 84.5 dBa

3 coats at 40-50 mils thickness:

Lazarett cover open: 79 - 79.5 dBa

Lazarett cover closed: 75 dBa

via Mario Ricci 26 - 61100 - Pesaro

Tel. +39 0721 202375 Fax. +39 0721 200131

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info@omniakoll.com



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CERTIFIED COPY



CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	CURRENT INC.
Address	30 Tyler Street PO Box 120183 East Haven, CT 06512 United States of America (USA)
Type	Fire Resisting Material - Type: "Silent Running Marine Paint Coating (SRC 1000)"
Description	MATERIAL HAVING LOW FLAME SPREAD CHARACTERISTICS AND NOT CAPABLE OF PRODUCING EXCESSIVE QUANTITIES OF SMOKE AND TOXIC PRODUCTS OF COMBUSTION
Specified Standard	IMO Fire Test Procedures Code, Annex 1, Part 5 and Annex 2.

The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue	30 January 2006	Expiry date	29 January 2011
Certificate No.	SAS F060023	Signed	
Sheet No	1 of 1	Name	M Farrier Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's Register EMEA
71 Fenchurch Street, London, EC3M 4BS
Telephone 020 7423 2940 Fax 020 7397 4246
Email dcg-stat@lr.org

Page	2 of 2
Document number	SAS F060023
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date 30 January 2006	Quote this reference on all future communications LPA/STAT/FITA/MF
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F060023

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

The Department of Fire Technology, Southwest Research Institute, San Antonio, Texas, Report No. 01.10085.01.606 dated December 2003.

TEST REPORTS

CONDITIONS OF CERTIFICATION

1. When applied to a non-combustible substrate.
2. Maximum nominal thickness .035 inches (0.89mm), nominal density 1350kg/m³.
3. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

PLACE OF PRODUCTION


M Farrier
Lead Specialist
Safety & Pollution Service
Statutory and Structures Services
London Plan Approval

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).




EXECUTIVE SUMMARY

A wall coating identified as “SILENT RUNNING MARINE COATING™ (SRC 1000)” was tested in accordance with IMO Resolution A.653(16), *Recommendation on Improved Fire Test Procedures for Surface Flammability of Bulkhead, Ceiling and Deck Finish Materials*, adopted October 1989. A summary of the test results is provided below:

Parameter	SILENT RUNNING MARINE COATING™ (SRC 1000)
Critical Flux at Extinguishment (CFE)	37.30 kW/m ²
Heat for Sustained Burning (Q _{sb})	4.1 MJ/m ²
Total Heat Released (Q _t)	0.07 MJ
Peak Heat Release Rate (q _p)	1.00 kW
Time to Ignition	49 sec
Heat for Ignition (Q _{ig})	2.9 MJ/m ²
Extinguishment Location	233 mm
Extinguishment Time	187 sec
Meets Requirements of IMO A.653(16)	YES
Smoke & Toxicity Testing Required	NO

The material tested as described in this report **meets** the flame spread requirements for interior finish materials specified in Section 10 of IMO Resolution A.653(16). Because the average Q_t is less than 0.2 MJ, and the average q_p is not more than 1.0 kW, smoke and toxicity testing, according to Part 2 of Annex 1 to IMO Resolution MSC.61(67), will not be required to meet the requirements for wall covering materials.



 **U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval**

Coast Guard Approval Number: 164.112/74/0 Expires: 29 March 2009

INTERIOR FINISH (IMO)

CURRENT, INC.
30 Tyler Street
P.O. Box 120183
East Haven CT 06512

"Silent Running Marine Coating (SR 1000)" is approved to meet Part 2 and 5 of Annex 1 of the IMO FTP Code.

"Silent Running Marine Coating (SR 1000)" with a maximum thickness of 0.035 inches (0.89 mm).

Tested and approved in accordance with FTP Code Part 5 of Annex 1. Smoke and toxicity testing was not required as indicated in the FTP Code, Annex 2, paragraph 2.2.


Identifying Data: Southwest Research Institute (SwRI) Project No. 01.10085.01.606 dated December 2003; Project No. 01.02500.118, Revision 0, Copy 5 dated January 2004.


This type approval is contingent on continuous compliance of the product verified via follow up services by SwRI. Product must be applied in accordance with manufacturer's instructions.

Only valid when manufactured at the following location:
Greenfield Manufacturing, Inc.
49 Geyser Road
Saratoga Springs, New York 12866

*** END ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.

 GIVEN UNDER MY HAND THIS 29th DAY OF MARCH 2004, AT WASHINGTON D.C.


J. G. LANTZ
Chief, Lifesaving and Fire Safety Standards Division
BY DIRECTION OF THE COMMANDANT, U.S.C.G.

DEPT. OF HOMELAND SECURITY, USCG, CGHQ-10030
(REV. 3-03)

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Roush Industries Proposal No. 04-120-1502, Final Report, "ASTM E756 Viscoelastic Property Measurements of a Coating Material Sample"

Please accept this document as the final letter report for viscoelastic property measurements of a coating material sample. The purpose of this project was to measure the loss factor and the storage modulus of the material as functions of temperature and frequency per the ASTM E-756 specifications.

Measurement Procedure:

The homogeneous base beams were prepared per the ASTM E-756 specifications by Roush, and the coating material was coated on one side of the base beam by Current Inc. The dimension of the beam samples was 0.5"x11". The beam samples were mounted in a test fixture designed to provide a firm boundary condition at the root end. The length of the free portion of the cantilever beam was 10". Beam excitation in the form of random white noise was provided by a non-contacting magnetic exciter located close to the root end. The response of the beam was measured with a piezoelectric crystal located close to the root end. The test fixture was placed in an environmental chamber so that the effects of temperature on the properties could be defined. For this work, a temperature range of -40 F to 200 F was covered. The frequency response functions of the cantilever beams were collected at the bending modes of interest and processed to obtain viscoelastic properties of the material sample.

Test Results:

The material properties were presented in the form of a Reduced Temperature-Frequency Nomogram and have been delivered electronically to Current Inc. The following is the instructions on how to read the graphs:

1. Select a frequency of interest on the right hand axis.
2. Follow chosen frequency (horizontal line) to desired diagonal temperature isotherm.
3. Go vertically to intersect the Young's storage modulus and loss factor curves.
4. Draw horizontal lines from the intersect points to the left and read the storage modulus and loss factor values from the appropriate left vertical scale.

The Young's storage modulus and loss factor were also presented as functions of temperature at 1000 Hz.

Marc, we thank you for choosing Roush Anatrol's services. If you have any questions regarding the test results, please feel free to call me at 734-779-7538 or by email at vheier@roushind.com or by fax at 734-779-7903.

Sincerely,

ROUSH ANATROL DIVISION

Valeria Heiermann

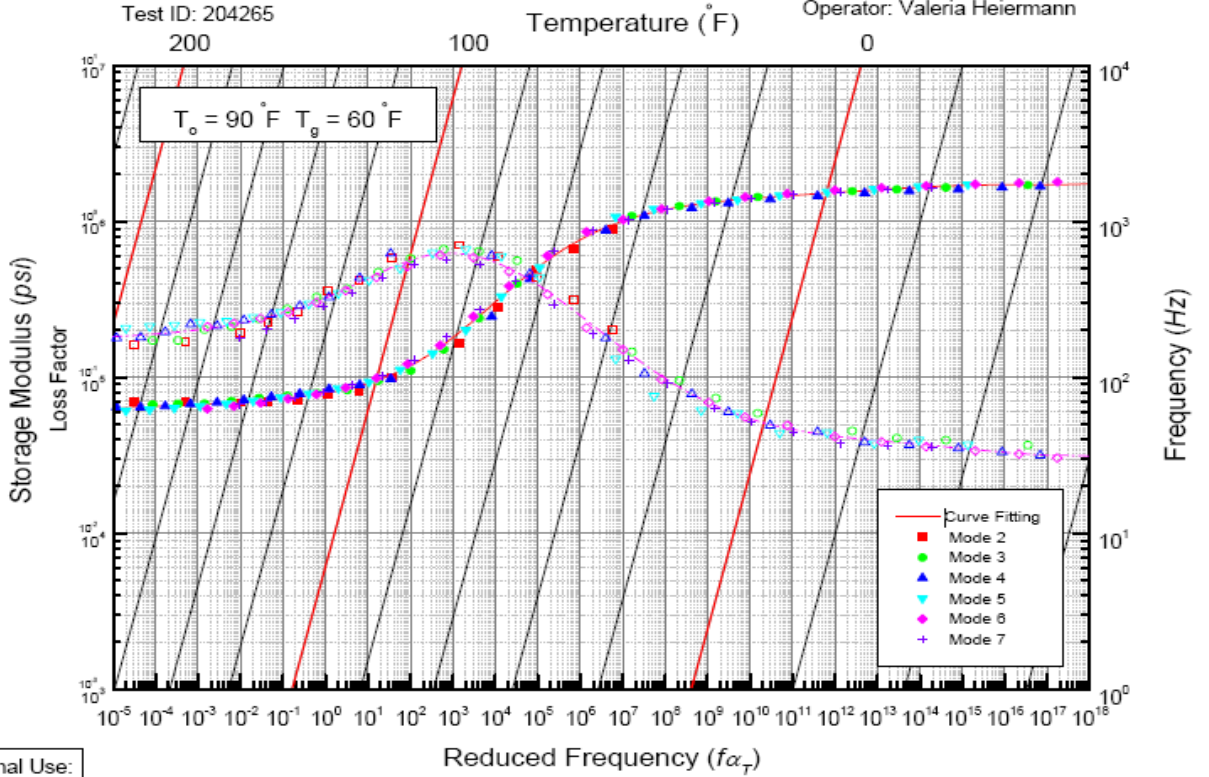
Materials

Engineer

ROUSH INDUSTRIES, INC.

Material: Current Inc. - Coating Material
 Method: Oberst Beam
 Test ID: 204265

Date: 08-12-2004
 Operator: Valeria Heiermann

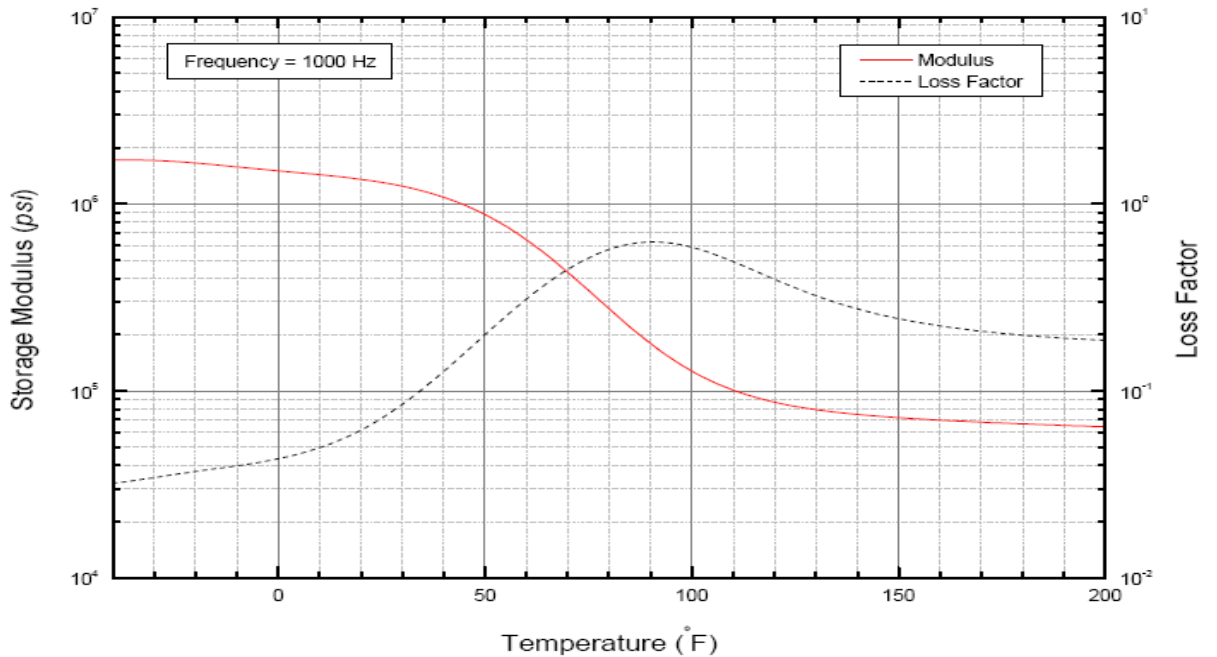


For Internal Use:
 Alpha:5 Beta:8

Material: Current Inc. - Coating Material
 Test ID: 204265
 Method: Oberst Beam

Date: 08-12-2004
 Operator: Valeria Heiermann

ROUSH INDUSTRIES, INC.





SR-500 TESTING Sheets

CLIENT: Current, Inc
30 Tyler Street
PO Box 120183
East Haven, CT 06512

Test Report No: 176541-1 Date: May 7, 2003

SAMPLE ID: The Client submitted and identified the following test material as Gray Material coated .020" to .025" on 20 gauge galvanized steel.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on April 23, 2003 as STN 36335.

TESTING PERIOD: May 6, 2003.

AUTHORIZATION: Testing authorized by Nate Elder.

TEST REQUESTED: Smoke Density Tests per ASTM E662-01, "Standard Method for Specific Optical density of Smoke Generated by Solid Materials". This test method is comparable to NFPA No. 258.

TEST RESULTS:	Flaming Mode	<u>Ds @ 1.5 min.</u>	<u>Ds @ 4 min.</u>	<u>Dm</u>	<u>Dm Corr.</u>
	Average	8	48	134	132
	Non- Flaming Mode	<u>Ds @ 1.5 min.</u>	<u>Ds @ 4 min.</u>	<u>Dm</u>	<u>Dm Corr.</u>
	Average	1	19	153	152

For detailed results see page 2.

Tested by

Brian Ortega
Test Technician

**Signed for and on behalf of
SGS U.S. Testing Company Inc.**

Greg Banasky
Supervisor Fire Technology

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services (copy available on request). SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.



139847

Report No.: 176541-1

Date: May 7, 2003

Page: 2 of 2

CLIENT: Current, Inc

TEST PROCEDURE: The individual specimens were dried for 24 hours at $140 \pm 5^\circ$ F and then conditioned to equilibrium at a temperature of $73 \pm 5^\circ$ F and a relative humidity of $50 \pm 5\%$. The test chamber was preheated to $95 \pm 4^\circ$ F and all steady state conditions checked. Following placement of the specimens in the chamber and initiation of the test, light transmittance and time were plotted continuously with a multi-range recorder. The test, in the flaming and non-flaming modes, was continued for a minimum of 3 minutes after recording of minimum light transmittance.

TEST RESULTS:

Smoke Density per ASTM E-662

Flaming Mode

<u>Test Specimen Number</u>	<u>Ds @ 1.5min.</u>	<u>Ds @ 4 min.</u>	<u>Dm</u>	<u>Dm Corr.</u>
1	9	51	143	141
2	6	39	166	164
3	10	55	92	91
Average	8	48	134	132

Non-Flaming Mode

<u>Test Specimen Number</u>	<u>Ds @ 1.5min.</u>	<u>Ds @ 4 min.</u>	<u>Dm</u>	<u>Dm Corr.</u>
1	1	21	172	171
2	1	17	122	121
3	1	18	165	164
Average	1	19	153	152

Legend:

Specific Optical Density: Ds

Maximum Specific Optical Density: Dm

Maximum Specific Optical Density Corrected: Dm Corr.

OBSERVATIONS: In the flaming mode, maximum smoke evolution occurred at an average time of 12 minutes, 50 seconds and the non-flaming mode, maximum smoke evolution occurred at an average time of 20 minutes.

End of Report





CLIENT: Current, Inc
30 Tyler Street
PO Box 120183
East Haven, CT 06512
Nate Elder

Test Report No: 176541-2

Date: May 7, 2003

SAMPLE ID: The Client submitted and identified the following test material as Gray Material coated .020" to .025" on 20 gauge galvanized steel.

DATE OF RECEIPT: Entered into SGS USTC sample tracking system on April 23, 2003 as STN 36335.

TESTING PERIOD: May 6, 2003.

AUTHORIZATION: Testing authorized by Nate Elder.

TEST REQUESTED: The submitted sample was tested for surface flammability in accordance with the procedures outlined in ASTM E162-02e, "Surface Flammability of Materials Using a Radiant Heat Energy Source".

TEST RESULTS: Average Flame Spread Index
5.39

For detailed results see page 2.

Tested by

Brian Ortega
Test Technician

**Signed for and on behalf of
SGS U.S. Testing Company Inc.**

Greg Banasky
Supervisor Fire Technology

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4





Report No.: 176541-1

Date: May 7, 2003

CLIENT: Current, Inc

Page: 2 of 4

PREPARATION AND CONDITIONING: Specimens were submitted in four pieces 6" wide by 18" long. Prior to testing the specimens were pre-dried for 24 hours at 140° F and then conditioned to equilibrium at a temperature of 73 ± 5° F and a relative humidity of 50 ± 5%. The specimens were wrapped with aluminum foil.

TEST RESULTS:

<u>Specimen Number</u>	<u>Flame Spread Factor, Fs</u>	<u>Heat Evolution Factor, Q</u>	<u>Flame Spread Index, Is</u>
1	2.50	1.32	3.30
2	2.60	1.98	5.51
3	2.52	2.63	6.63
4	2.48	2.63	6.52
Average	2.53	2.14	5.39

OBSERVATIONS: Surface flaming to the 9" mark was observed on all specimens. The Average Flame Spread Index is 5.39. The average temperature rise is 9° C.

End of Report