

All SpaceAge Synthetics' products are manufactured by skilled employees under a Quality Management System that is registered to ISO 9001:2015, ensuring every tough sheet meets the highest approved international standards.

ADHESIVES AND SEALANTS

Processing Thermo-Lite Board®

Our material is a unique closed cell, lightweight composite product, manufactured with cross-linked polymer foam and fiberglass, that offers high specific strength and toughness. The non-absorbent material is extremely durable, provides and excellent bonding surface, has good impact strength, sound and thermal insulation, and is resistant to contamination. Offered in sheets or cut into parts, our material is built for lifetime performance, and is ideal for endless coring applications subjected to static and dynamic loads.

There are numerous suitable adhesives, sealants, paints, coatings and fairing compound products currently on the market that our customers have found to perform successfully with our coring material. We offer that information here; as well as hardware suggestions, techniques, and methods you may find helpful as you prep our Thermo-Lite Board® for your application.

Thermo-Lite Board® is non-absorbent, so water-based adhesives are not recommended. Best results are achieved with a polyurethanebased adhesive or sealant. We offer the listed contacts and their company products. Please consult them with your bonding questions. Qualification must be established on the user level.

SpaceAge Synthetics, Ltd. does not use, sell, distribute, or promote any brand of adhesive, sealant, paint, coating, fairing compound, or fastener hardware. This document is created for the purpose of listing those products that have proved to perform successfully in past customer applications. The user is solely responsible for evaluating and qualifying products applied to or used with our Thermo-Lite Board® to ensure they are fit for a particular purpose, and suitable for user's method of application.

•	 SM United States Kevin Hooley Adhesives Sealants Marketing Manager 651.733.8840 Cell kphooley@mmm.com www.3M.com Sika Corporation Shawn McNulty Sr., Marine Business Unit 954.520.3578 Cell mcnulty.shawn@sika-corp.com Tony Gray Midwest Region Sales Manager Transportation & Components Business Unit 574.361.8424 Tel gray.tony@sika-corp.com www.sikaindustry.com IPS Corporation Karen Brock Amoah Sales & Marketing Mgr. Structural Adhesives 600 Ellis Road Durham, NC 27703 301.502.3217 Cell 919.598.2400 Ext. 380 HQ Office Karen.Amoah@ipscorp.com www.ipscorp.com 		 SM™ Contact Cements & Adhesives: Scotch-Weld™ 94CA - Green SM™ Polyurethane Adhesives & Sealants: 500-Series SM™ Hybrid Adhesives & Sealants: 700-Series - Green Product SM™ Nitrile-Based Adhesive: Scotch-Weld™ 4491 Ask about 3M's environmentally-friendly products. Sika Marine Polyurethane Adhesives: SikaFlex® 291, 291L0T, 292, 295UV Component Products: BikaForce® and SikaFast® Sika Transportation Polyurethane Adhesives: SikaFlex® 252, SikaFlex® 221, Hybrid Adhesive: BikaFlex® 552 Please call for the appropriate Sika adhesive recommended for your application. Weld-On® Methacrylate Adhesives: Si300 Series S1100 Series NEW Weld-On® adhesive testing performed with Thermo-Lite Board®.
•			
•			
•	Lord www.lord.com	866.567.3234	Lord 7000 Series, Urethanes 300 Series Epoxy
•	Gorilla Glue www.gorillaglue.com	800.966.3458	Gorilla Glue
•	Lonseal www.lonseal.com	800.832.7111	Lonseal 880
•	Loctite Products www.loctiteproducts.c	800.321.0253 om	Loctite Urethane Adhesive: U-05FL Loctite Epoxy Adhesive: 3032
•	Henkel Australia PTY www.teroson.com.au	300.88.555.6	Teroson Adhesive
•	Forgeway, U.K. recom	mendation: For bonding 'Ther	mo-Lite Board' where a 'flexible' bond is required, we recommend you prime the

he 'Thermo-Lite Board' using Formoa Premier PG and bond using Formoa 063 or Formoa 017FE. For bonding 'Thermo-Lite Board' where a 'rigid' bond is required, we recommend you prime the 'Thermo-Lite Board' using Formoa Premier PG and bond using Purok VX61

PAINTS AND COATINGS

When using paints and coatings with Thermo-Lite Board®, the best results are achieved with polyurethane-based products. We invite you to consult the listed contacts with your questions. Qualification must be established on the user level.

- For Paints, Please Contact: Sherwin Williams Company Mark Edmonds Great Lakes Regional Marine Specialist 715.551.3899 Tel swrep5835@sherwin.com
- Quantum Group 780.458.3355 #224 Tel
- For Sound Damping Options, Please Contact: American Acoustics Ken Rodger 720.635.1294 Tel

FAIRING COMPOUNDS

Lightweight and sand-able fairing compounds (epoxy putties, surface fillers) may be used to create a further refined and smoother surface on our products in prepping them for other paints, coatings, and surface finishes. Please contact the provided sources for those fairing compounds that have proved to perform well with our product.

- Akzo Nobel 31.20.502.7555 www.akzonobel.com
- 3M Bondo Corporation 800.3M.Helps www.bondo.com

FASTENER HARDWARE

Thermo-Lite Board® will accept standard tooling and hardware. We suggest through-bolting and up-sizing the washer/head diameter if possible. In comparrison to plywood, user must reduce the torque when fastening into the material. The fastener performance varies with fastener style, size, and torque as well as with product series and density. Hardware qualification must be established on the user level.

Reputable Bus OEM's and Transit Authorities world-wide use Thermo-Lite Board® in the flooring of their public transit buses. Here, they share fastener and installation methods:

FASTENER/ADHESIVE	METHOD	Y
1. Floor screws with up-sized washers	Install at low RPM, and do not over tighten; this may create too large a hole, or draw the head through the material.	1
2. Countersink	Fill head of screws, and sand to create a smooth surface.	
3. Screw system (Self-tapping seam screw {M6 #14} with 1" washer/ 1" flat head screw with slot on end of thread shank)	Allows mechanic to tighten the bolt to the screw from underneath the bus.	A CONT
4. Fasten with adhesive (for additional securement) or without adhesive	Clean surface (Sika®Cleaner-205.) Apply adhesive (SikaFlex® 221, SikaFlex® 555) or construction adhesive, to sub-frame before composite is set in place.	
 Huck bolts, Grade 5 Floor Bolts, 5/16" Grade 8 Torx Bolts 		1
	UNDERBODY COATING	

- Protects the steel parts and chassis framework from corrosion.◀
- Provides additional protection for the flooring material. (Tectyl 121BN) ◀
 - Underbody wax system seals off water trap areas. ◀
 - Little to some acoustical advantages. Reduces some heat transfer. ◀









For a Fire Proof Intumescent Coating Service. Please Contact Us for Options

Bondo Marine

& Coatings

AWLGrip Fairing Compound

- Tony LaGrange, President

POLANE® SpravFil D61A23 POLANE® S Plus Polyurethane Enamel