

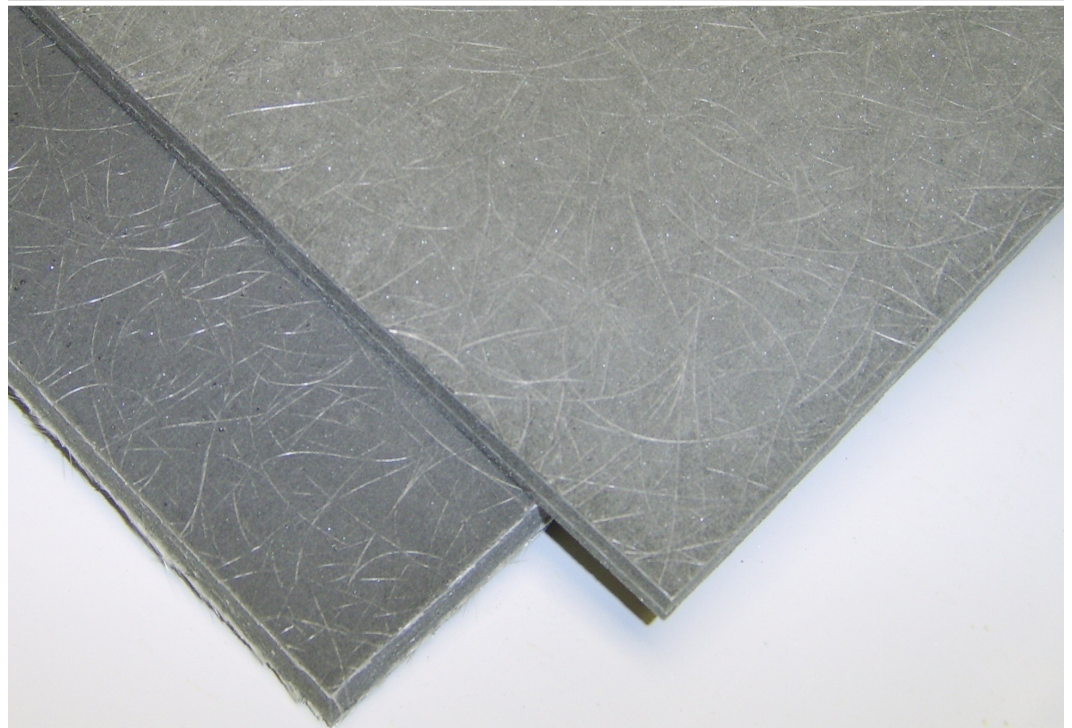


ISO 9001:2008 Registered

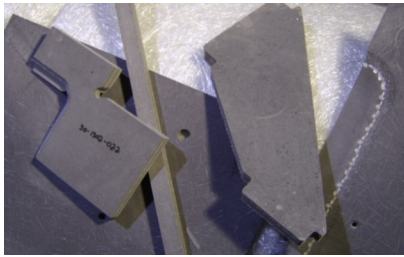
*Achieve Superior Finishing Results
with Thermo-Lite Board® and . . .*

Sealants Fairing Compounds Coatings
Adhesives Paints Fastener Hardware

Partner our Thermo-Lite Board® with other products
to achieve superior finishing results.



SpaceAge Synthetics succeeds only when our customers acquire suitable materials and tools necessary to fabricate our Thermo-Lite Board® into their products . . .



All SpaceAge Synthetics' products are manufactured by skilled employees under a Quality Management System that is registered to ISO 9001:2008, ensuring every tough sheet meets the highest approved international standards.

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 an 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.

ADHESIVES AND SEALANTS

Thermo-Lite Board® is non-absorbent, so water-based adhesives are not recommended. Best results are achieved with a polyurethane-based 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.

- **3M United States**

Jim Reilly
Field Market Development Manager
Southeast Region - Atlanta, GA
678.492.2491 Cell
678.455.0473 Office
jereilly1@mmm.com
www.3M.com

- **3M™ Contact Cements & Adhesives:**

Scotch-Weld™ 94CA - Green

- **3M™ Polyurethane Adhesives & Sealants:**

500-Series

- **3M™ Hybrid Adhesives & Sealants:**

700-Series - Green Product

- **3M™ Nitrile-Based Adhesive:**

Scotch-Weld™ 4491

Ask about 3M's environmentally-friendly products.

- **Sika Corporation**

Shawn McNulty Sr., Marine Business Unit
954.520.3578 Cell
mcnulty.shawn@sika-corp.com

- **Sika Marine Polyurethane Adhesives:**

SikaFlex® 291, 291LOT, 292, 295UV

- **2-Component Products:**

SikaForce® and SikaFast®

Tony Gray
Midwest Region Sales Manager
Transportation & Components Business Unit
574.361.8424 Tel
gray.tony@sika-corp.com
www.sikaindustry.com

- **Sika Transportation Polyurethane Adhesives:**

SikaFlex® 252, SikaFlex® 221,

- **Hybrid Adhesive:**

SikaFlex® 552

Please call for the appropriate Sika adhesive recommended for your application.

- **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

- **Weld-On® Methacrylate Adhesives:**

SS300 Series

SS1100 Series

NEW Weld-On® adhesive testing performed with Thermo-Lite Board®.

- **Lord** 866.567.3234
www.lord.com

Lord 7000 Series, Urethanes 300 Series Epoxy

- **Gorilla Glue** 800.966.3458
www.gorillaglu.com

Gorilla Glue

- **Lonseal** 800.832.7111
www.lonseal.com

Lonseal 880

- **Loctite Products** 800.321.0253
www.loctiteproducts.com

Loctite Urethane Adhesive: U-05FL

Loctite Epoxy Adhesive: 3032

- **Henkel Australia PTY** 300.88.555.6
www.teroson.com.au

Teroson Adhesive

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
 www.sherwin-williams.com
 - POLANE® SprayFil**
 D61A23
POLANE® S Plus
 Polyurethane Enamel
-
- For a Fire Proof Intumescent Coating Service, Please Contact:**
Paragon Coating Services
 Clariece Brecht, President
 320.563.0116 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 **AWLGrip Fairing Compound & Coatings**
 www.akzonobel.com
- 3M Bondo Corporation** 800.3M.Helps **Bondo Marine**
 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 comparison 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

- 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.
- 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.
- 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.
- 5. Huck bolts, Grade 5 Floor Bolts, 5/16" Grade 8 Torx Bolts**



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. ◀



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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.

SpaceAge Synthetics . . . A Trusted Leader in our Industry

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