



Vaber Industriale Spa ITALY

ITW Plexus's Partner since 1996

SHAMROCK
INTERNATIONAL

Vaber Industriale chemical products manufacturer since 1957.

Core business manufactured products 2020:

High Performance
adhesives and Sealants
(MS polymers, MMA's,
PU's)

Specific Film & Tapes

Equipment & fittings

Vacuum Advanced
Materials for
Composite Industry

Butyl compounds,
Noise Proof Systems

Sound Damping
Coating

Intumescent Water Based Paint / MS Fire Resistant Sealant / Evolutional Fire
resistance Systems for METAL and COMPOSITES



ITW Performance Polymers



PLEXUS[®]

***ITW Plexus – Pioneers in MMA Technology –
Advanced Structural Adhesives***

Composite stringers, liners and deck to hull
bonding

From ski boats to mega yachts, **more than 75%
worldwide of the boat builders** count on ITW
Plexus 1:1 and 10:1 marine formulations for
their bonding needs

ITW Performance Polymers

Properties

➤ ITW Plexus

Methacrylic System

2 K System (1:1 or 10:1)

High Tensile strength, $>10 \text{ N/mm}^2$
(ASTM D638)

Elongation $>100\%$

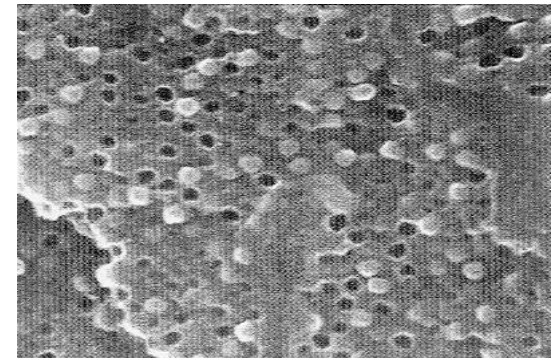
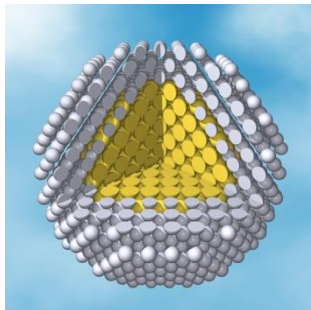
Chemical fusion

Room temperature cure

Long working time, fast curing

High impact resistant (core shell)

High fatigue resistant (core shell)



Core Shell Technology



Absorb energy
without catastrophic
failure



Resist fracture,
Impact and Thermal
Stress with no
sacrifice to other
properties



Resist high
stress loads
particularly in
peel



Resist cracking due
to high elongation



Superior durability
resulting in
excellent fatigue
resistance



Fatigue

➤ ITW Plexus

**Methyl-Methacrylate
Core Shell**

**Methyl-Methacrylate
Toughened**

**CTBN
Epoxy**

**Urethane
Primerless**

**ATBN
Epoxy**

167,341

93,391

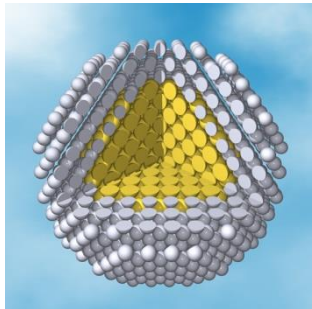
36,691

6,423

7,884,231

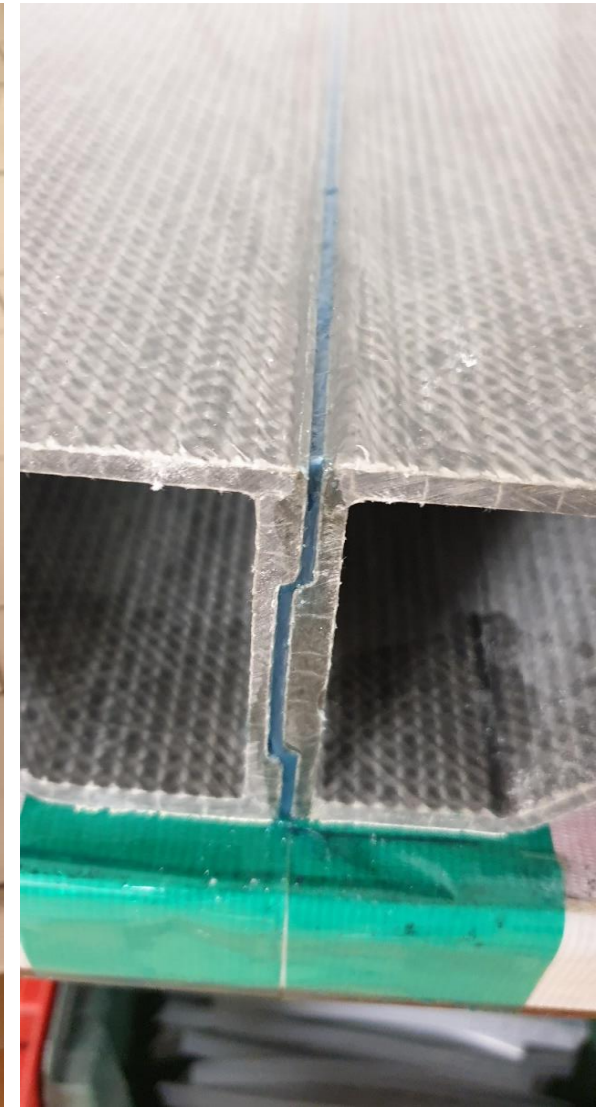
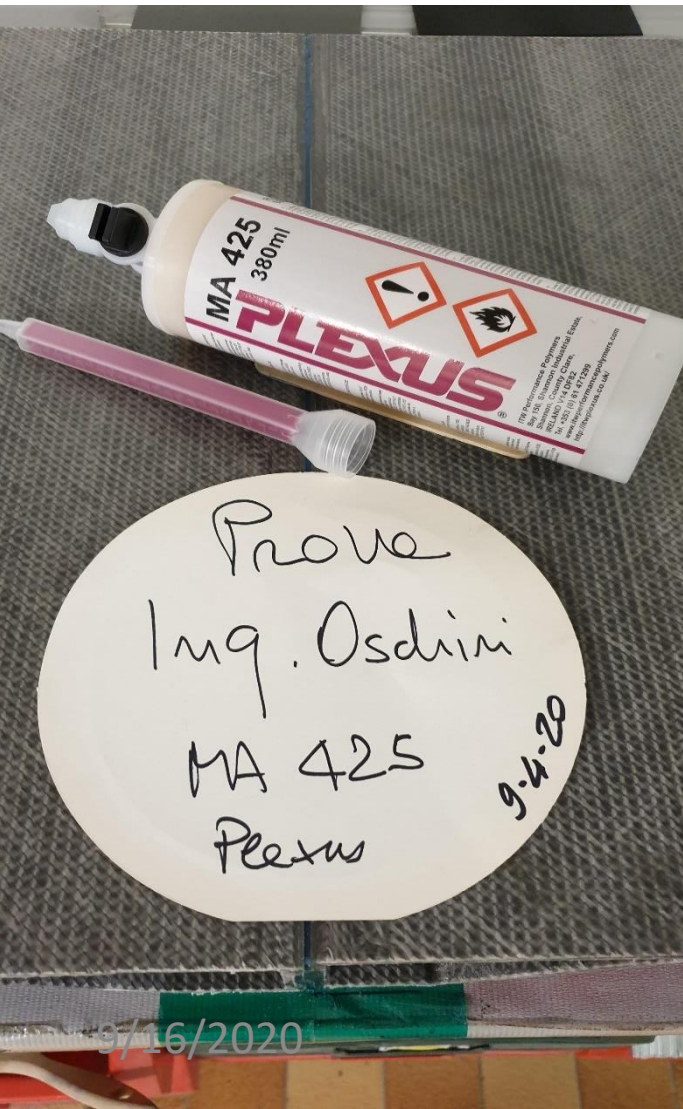
**Lap-Shear Fatigue ASTM D 1002
Substrate: Grit-Blasted Steel
Frequency: 30 Hz
Room Temperature Controlled
50% of Ultimate Strength**

0 1E+06 2E+06 3E+06 4E+06 5E+06 6E+06 7E+06 8E+06 9E+06

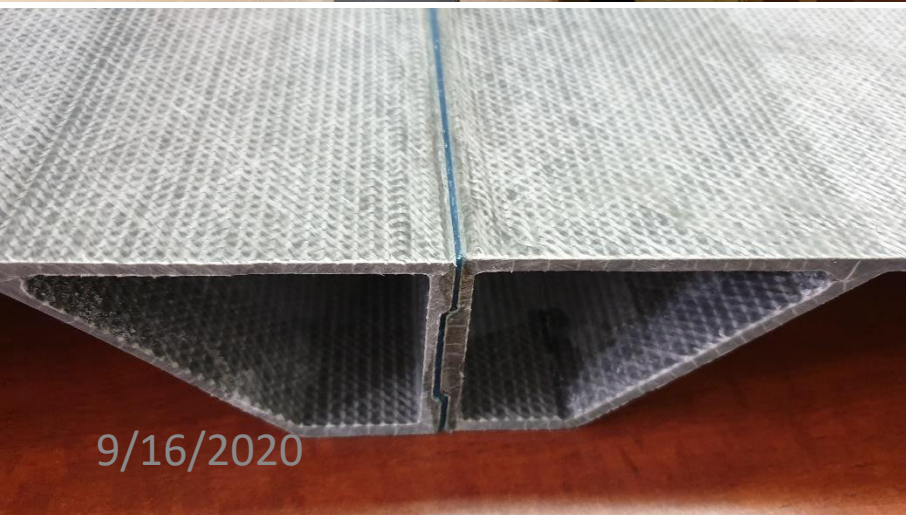
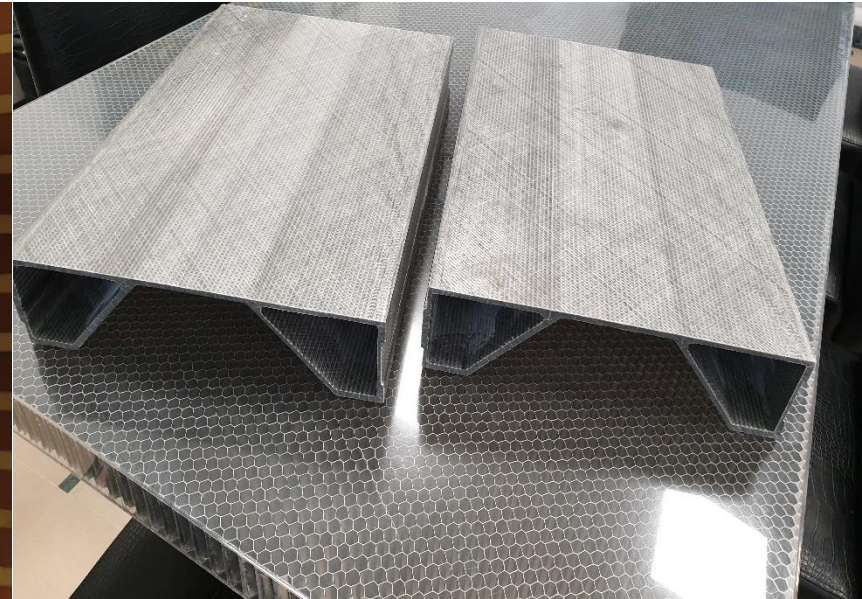




POLTRUSION Composite Profile Bonding – Project RAMSSES Vaber Industriale Spa – ITW Plexus



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9/16/2020

FINTEX·TETRAKEM

Fire Secure Mastic Adhesive
Tetrakem Fire Secure Paints
Neofix 6065R IMO contact glue



FINLAND



Grazie!

