Application Note

Collano Semparoc Polyurethane Adhesives

About Collano

Collano, a Swiss company, has been making specialist wood adhesives since 1947. It's a family-owned business, based near Lucerne and employing around 80 people.

About Semparoc

There are two adhesives relevant to wooden boat building and repair, **Semparoc 60** and **Semparoc Rapid V**. Both are top-quality adhesives that foam when exposed to air,to fill gaps between surfaces. Whilst Semparoc 60 has the ultimate strength, Semparoc Rapid V foams more and cures faster.

One component polyurethane adhesives combine high performance with ease of use, making them suitable for professionals and amateurs alike. They react with moisture to cure, so the moisture content of the woods to be glued, as well as the moisture content of the air, affects the hardening time.

The reason that Semparoc 60 is a bit stronger is that it contains very thin fibres, which make a stronger consistency when set. It also has a stronger tearing resistance when the timbers glued are particularly strong in themselves.

Semparoc 60 is, as far as we know, the only wood glue with an open time of more than an hour, enabling complex structures to be assembled before the glue cures.

These adhesives do not dissolve in water. They have excellent resistance to repeated wet/dry cycles, and can be used with resinous woods like teak and acacia. The bond line, although completely water resistant, is breathable so allows for moisture variations in the timber and does not create a moisture barrier. This guarantees long service life of the joint.

Comparison Table

	Semparoc 60	Semparoc Rapid V
Water resistant	✓	
For use on hard and softwoods	✓	
Application temperature	+10 to +30˚C	
Open time	+/- 1 hour	15 minutes at 20˚C
Pressure time	3-4 hours at 20˚C	45 minutes at 20˚C
Pressure	$0.2\text{-}0.8 \text{ N/mm}^2$	
Density	1.25g/ml	1.15g/ml
Water resistance	C4 in accordance with EN12765	
Flamability & heat resistance	Hardly flammable. Resistant to +120˚C	
Spread rate	$100\text{-}300\text{g/M}^2$	