H.B. Fuller | Connecting what matters.™

CASE STUDY

Köraflex VP 990 Offers Outstanding Design Options for Deck Caulking

When considering design aspects more and more naval architects are planning white or grey deck caulking for high-class yachts to make an optical difference. With Köraflex VP 990, H.B. Fuller | Kömmerling has developed an outstanding solution for this application.

Is grey the new black? Due to the increased number of sailing boats with a grey teak deck, it seems so. The main reason designers and yacht owners prefer a grey caulking is aesthetics, as this colour makes the deck look more elegant, especially on modern sailing yachts that have large teak deck areas.

Deck caulkings that currently exist in the market show significant problems in UV stability and/or discoloring in combination with cracks in the caulk line. Staining also presents a problem.

Köraflex VP 990 is a one-component synthetic polymer, specially developed for deck caulking application. When developing the product, the target was to get a sealant with very good adhesion to wood, especially teak, that features a very high UV stability and is easy to work with.

Köraflex VP 990 has the UV stability from silicone sealants combined with the properties from MS polymers - no bubbling, NCO-free, solvent-free, not effecting painting works.

Köraflex VP 990 achieves exceptional adhesion to fresh-cut teak without the need for a primer meaning extra labour time and material costs of the priming process are totally eliminated. The use of a primer is only recommended in case of a refit.

The cured caulk provides excellent temperature stabilitiy and good resistance to chemicals and UV light. It is sandable after curing and non-corrosive to all substrates. The consistency of Köraflex VP 990, which is specially designed for this application, makes applying and tooling easy.

Product Performance

Köraflex VP 990

Elastic, one-component moisture-curing synthetic polymer for deck caulking joints in the boat and shipbuilding industry.

- Excellent adhesion to wooden materials and many duroplastics and thermoplastics
- Very good resistance to humidity and weathering
- Good resistance to water and salt water
- Good resistance to a lot of teak cleaners
- Highly resistant to UV radiation
- Temperature resistant from -40°C to +120°C (for short intervals resistant up to +150°C)
- Meets the requirements of IMO

Product	Color	Density (g/cm^3)	Skin formation time	Curing (mm/24h)	Hardness Shore A	Elongation at break	Tensile Strength (MPa)	Tear Strength (N/mm)
Köraflex VP 990	Black, white and grey	1.4	30 min	2	42	410 %	2.0	4.0

Summary of Customer's Benefits:

- Maximum adhesion to teak
- Ready-to-use 1-k sealant
- No bubbling
- Free of solvents, isocyanate, and silicone oils
- Exceptional durability
- Permanent flexibility
- Time and cost savings due to primerless application
- Sandable
- Improved design
- Paintable
- Available in three different colours

Ask H.B. Fuller | Kömmerling about how we can help you with our innovative bonding solutions. We're here when you need us, every step of the way. Contact us at **productmanagement@koe-chemie.de**.

About H.B. Fuller

Since 1887, H.B. Fuller has been a leading global adhesives provider focusing on perfecting adhesives, sealants and other specialty chemical products to improve products and lives. H.B. Fuller's commitment to innovation brings together people, products and processes that answer and solve some of the world's biggest challenges. Our reliable, responsive service creates lasting, rewarding connections with customers in electronics, disposable hygiene, medical, transportation, aerospace, clean energy, packaging, construction, woodworking, general industries and other consumer businesses. And, our promise to our people connects them with opportunities to innovate and thrive. For more information, visit us at **hbfuller.com**.

H.B. Fuller

For more information about our company, visit **www.hbfuller.com** or **www.koe-chemie.com**.

Join the Conversation | **www.hbfuller.com/connect**

ea_btrscasestudy002 Rev. 10/2019