Product information | *Merbenit DC 25*

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Merbenit DC 25 is fast curing, elastic, highly UV- and weather resistant, one-component sealant on the basis of MS hybrid polymers.
Merbenit DC 25 is suitable for the sealing of decks in the construction of ships and yachts, as well as wooden terraces.

Product advantages:

- 1-component
- Easy and quick processing
- Fast curing speed
- Permanently elastic
- Free of solvents, isocyanate and silicones
- Very good adherence on many supports
- Suitable for the sealing of teak, Pitch Pine, oak, beech and many others
- Slightly flowable setting; therefore a very quick filling without air bubbles is possible
- Extremely high resistance to water, salted water, UV, ageing and weather
- High elasticity and softly settings, therefore suitable also for older decks with bigger joint movements
- Good resistance against aliphatic solvents, oils, fats, watered inorganic acids and alkalis
- Grindable and varnishable, compatible with a huge number of wood-care products
- Grindable after 2 days already
- Very good sealing abilities
- Shock-proof and vibration-firm (shock-absorbent)
- Nearly odourless

Processing:

- For renovations: Replacement of defective woods, grinding of joint flanks. The joints must be free of dirt, dust, oil and fat.
- Afterwards, insert a joint tape to avoid a three-flank-adherence. After Primer SP was applied and its drying time was respected, Merbenit DC 25 can be handled with as follows: Merbenit DC 25 can be filled directly from the cartridge / sausage (hand or air pressure gun) into the joints. Thanks to his slightly flowable setting the joint flanks are optimally moistened and air bubbles are avoided.
- Merbenit DC 25 is filled slightly over-flowing into the joints, in order to avoid superficial air holes at later grinding. The overflowing material is smoothed with a spatula. After 2 days the freshly sealed deck can be grinded. The grinding has always to be done in direction of the joints. Grain of the sandpaper: 80 - 120.

Examples for application:

- Merbenit DC 25 was developed especially for the ship and yacht construction, for the sealing of teak decks and other kinds of wood as well as the sealing of wooden terraces.

Merbenit®
SWISS MADE

INNOVATIVE HIGH-TECH ADHESIVES AND SEALANTS

Update: 06.2008

Technical datas | *Merbenit DC 25*

CHEMICAL BASE

- Elastic, highly UV-resistant one-component sealant based on MS hybrid polymer, moisture-curing.

TECHNICAL DATAS

Product Name	**Merbenit DC 25**
Colour	black
Processing temperature with 50 % rf	+5 °C up to +40 °C
Volume change DIN 52451	< 3 %
Consistency	pasty, not stable in vertical joints
Density at +23 °C	1.36 g/cm^3 +/- 0.02 g/ml
Curing through after 24 hours, +23 °C and 50% rf	approx. 2.5 mm
Skin forming time at +23 °C, 50 % rf	approx. 10 minutes
Temperature resistance after curing	-40 °C up to +90 °C
Shore A hardness, DIN 53505, storage with +23 °C and 50 % rf	30 +/-2
Modulus elongation at 100 % and +23 °C, DIN 53504 S2, storage during 7 days at +23 °C and 50 % rf	approx. 0.4 N/mm^2
Tensile strength DIN 53504 S2, storage during 7 days at +23 °C and 50 % rf	> 2.0 N/mm^2
Elongation at break DIN 53504	> 700 %

CHEMICAL RESISTANCE

- Very good: against water, salted water
- Good: Aliphatic solvents, oils, fat, watered inorganic acids and alkalis
- Moderate: Against esters, ketone and aromatics
- Not resistant: against concentrated acids and chlorinated hydrocarbons
- Absolutely UV- and weather resistant

PRIMER

- Because of the high loads affecting a deck joint, a previous treatment of the wood with Primer SP is recommended in any case. Primer SP provides an optimal adherence between the wood and Merbenit DC 25. In addition, a blocking layer is created by the Primer between very oily and resinous wood and the sealant which strongly raises the life span of the joint.

SURFACE TREATMENT

- The surface has to be strong, clean, dust-, oil- and fat-free. Acetone or isopropanol show good results. For renovations of old decks, a previous grinding of the joint flanks is recommended. Defective wood must be replaced before sealing.

SMOOTHING OF THE JOINT

- Smoothing must be done with a spatula. Polishing with soap water is not possible!

CLEANING

- Cleaning of not cured sealant: immediately with grain paper and isopropanol.

Cleaning of cured sealant: mechanically.

STORAGE

- 12 months, in original packaging closed tightly, in a dry and cool place, protected from light.

PACKAGING FORMS

- 290 ml cartridge, 600 ml saugages, 20 L hobbocs, 180 L drums

DOSAGE

- A fully automatic proportioning is possible.

WORK AND ENVIRONMENTAL SECURITY

- No dangerous goods, not marking-liable. Important information about working and environmental security is available in the security data sheet.

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