



AKZENT

Balm for wood

— TECHNICAL — — INFORMATION —

SELECTION AND TYPES OF VARNISHES

Criteria for selection

- According to VOB DIN 18356, contractor (installers) must select the surface treatment products based on expected loads and designated use (see load classification for STAUF parquet varnishes and oils).
- This includes expressing concerns regarding inappropriate surface treatments proposed at bidding or in customer specification.

TYPE OF VARNISHES

Water-based varnishes (one or two component products)

- Color effect on wood usually light (low grain accentuation).
- Usually viscoplastic film.
- Necessarily, water seals contain small amounts of solvents (up to 15%) in order to ensure film formation, flow and cross-linking.
- Non-flammable, no generation of flammable or explosive fumes.
- To be stored in frost-free environment.
- Usually no requirement for classification.
- When working with two-component water-based varnishes, observe classification of hardener (usually Xn).

Oil-synthetic resin (alkyd resin) varnishes

- Very good penetration properties, impregnation effect.
- Usually intensive color effect on wood (high grain accentuation).
- Usually creates elastic film.
- Lowest side bonding properties of all varnish systems (preferably used with wood block, sprung floors and nail down parquet).
- High in solvents, observe work instructions!
- A key factor for the selection of a surface treatment product is the desired optical appearance (color intensity of wood, degree of gloss etc.).
- Observe Ordinance on Hazardous Substances. According to TRGS 617, select water-based varnish qualities where technically possible.
- Processing or processing characteristics such as suitability for roller application/spreading properties, spatula application, flow characteristics, drying times etc.

Solvent-based polyurethane varnishes (one and two component products)

- Observe Ordinance on Hazardous Substances. According to TRGS 617, water-based varnish qualities where technically possible and should be used.
- Sehr gute Haftungseigenschaften.
- Viscoplastic sealant layer.
- Strong cross-link, highest chemical resistance.
- Color effect on wood usually intense.
- 2C waterbased varnishes have usually similar product properties

- Usually high wear resistance
- High in solvents, observe work instructions!

Primers

- Have effect on wood color (lighter, more intense, darker).
- Depending on type of the primer, insulating effect against wood ingredients.
- To some extent low lateral bonding properties, reduces side bonding of subsequently applied parquet varnishes.
- Differences in raw material base, viscosity, flow characteristics, solids content.