TECHNICAL DATA SHEET

ALCOLIN WOODMATE

Description

ALCOLIN WOODMATE is a synthetic, siliconized acrylic sealant for wood, which locks out water, resists moisture, mildew, and is odour-free. It offers good primerless adhesion to hard and soft wood, seasoned timber, varnished or painted wood, fabricated wood, aluminium, concrete, glass and ceramic tiles.

Features & Benefits

- Excellent adhesion - bonds to most construction materials.
- Flexible - ideal for joint sealing.
- Gap filling properties - good for installing window beading.
- Acrylic feature - can be varnished or painted.
- Silicone feature - excellent water-resistance and weatherability.
- Mildew resistant - suitable for use in damp areas e.g. bathrooms, kitchens.
- Colour fast - does not darken.
- Low odour - can use in confined, poorly ventilated areas.
- Good chemical resistance - resistant to oils, weak alkali, weak acids and cleaning detergents.

Applications

- Colour match seal between countertops and splashbacks and bedding of cooking tops.
- Sealing and mounting wood panels and wood pieces.
- Sealing joints in laminate flooring, skirting and ceiling paneling.
- Sealing inside and around wardrobes and built-in cupboards.
- Sealing joints between walls, windows and door frames.
- Sealing chipboard ends.
- Sealing log and timber homes.
- Water vapour barrier.
- Adhesive for wood requiring an elastic bond.
- Flexible woodfiller and sealant.
- Noncracking window putty.

Adhesion

ALCOLIN WOODMATE exhibits good primerless adhesion to most building materials e.g. wood, concrete, plaster, brick, stone, metal (stainless steel, Aluminium, lead, copper, tin, galvanized iron, brass or zinc), glass, some plastics (fiberglass, acrylics, polycarbonates and rigid PVC) and painted surfaces.

Limitations

- Not suitable for continuous submersion under water.
- Cannot be sanded due to high polymer content. Use ALCOLIN WOODFILLER instead.
- Will not adhere to some plastics such as polyethylene, polypropylene and Teflon.
- Not suitable where movement accommodation of more than 10% is required.

Safety instructions

ALCOLIN WOODMATE is non-toxic however, it is advisable to wear gloves in order to avoid direct skin contact. In the event of skin or eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. Avoid breathing in vapours. Always work in a well-ventilated area. Keep out of reach of children! Cured silicone rubber can be handled without any health risk. Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

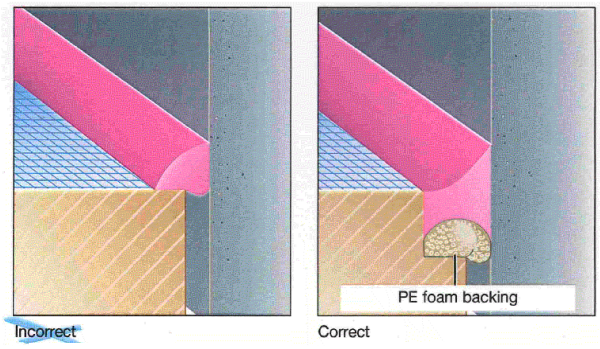
- The surface coming into direct contact with the ALCOLIN WOODMATE must be clean, dry, free from all loose materials, dust, dirt, oil, rust and any other contaminants.
- Gaps greater than 6mm in depth should be partially filled with backing material.
- Ensure also, that if soaps or detergents are used to clean the surface that it is rinsed down thoroughly with clean water.
- Poor surface preparation may result in the delamination of the product.

Directions for use

1. Ensure that surfaces are prepared as above.
2. Cut tip off cartridge and screw the nozzle onto the cartridge. Cut the tip of nozzle at an angle to achieve the desired bead size. Apply sealant with a caulking gun in a continuous bead to the prepared joint.
3. Use masking tape to get a clean, even sealant line and to eliminate cleaning difficulties. Remove the tape before sealant begins to skin.
4. Smooth down after application (within 10 minutes) before skin formation occurs, by using a flat or rounded tool. One can also use a finger, dipped in soapy water.
5. Sealant dries to touch in 1 hour and reaches full cure after approximately 24 hours.
6. When fully cured, sealant can be removed by mechanical means, i.e. with a sharp knife.
7. Protect against rain during the first 24 hours.
8. If sealant is to be overcoated, use flexible varnish or paint.
9. Due to shrinkage rate of the product, some applications e.g. joint sealing may require a double application of product.

Additional application notes

Back-up materials: These are used to partially fill the cavity to control sealant depth, make the bottom of the sealant concave and as a bond breaker to prevent uneven stresses (by preventing unwanted adherence to the base of the joint). Suitable back-up materials are closed cell PVC foam, polyurethane foam, polyethylene foam and polyethylene tape.



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- If movement is expected in a joint, the sealant must be x10 the width of the maximum movement expected e.g. if maximum joint movement of 0.5mm is expected, then the sealant width must be at least 5mm.
- Sealant depth should be equal to, at least, half the width of the joint.

Cleaning

- Remove uncured sealant immediately from the hands, tools and surfaces using a water-soaked cloth.
- When fully cured, sealant can be removed by mechanical means, i.e. with a sharp knife.

Storage stability

ALCOLIN WOODMATE has a shelf life of at least 36 months if stored in a cool (below 25°C), dry place in its original moisture-tight container. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a check should be performed to observe whether the product is still workable, apply-able and uncured. To maximize the shelf life of the opened cartridge, we recommend that the nozzle be removed, and a piece of plastic placed over the cartridge tip after which the nozzle must be screwed back on. A large screw inserted into the nozzle tip also helps.

Product packaging

- 280ml cartridge
  Pine, Beech, Oak, Cherry, Meranti, Imbuia

Product data

i. Physical data - Uncured

Appearance	Homogenous non sag paste in various wood colours
Density (DIN 53217)	1.05g/cm^3 at 23°C
Solids content	Approx. 65 %
Slump (ISO 7390)	0mm

ii. Application data

Curing time	Approx. 24 hours per 2mm
Coverage – 280ml cartridge	11 metres (5mm x 5mm joint)
Skin time	Approx. 10 minutes

iii. Performance data – Cured (4 weeks at 23°C, 55% relative humidity)

Appearance	Flexible solid
Elastic recovery (ISO 7389)	< 60 %
Elongation at break (ISO 37)	500 – 600 %
Modulus 100% (ISO 37)	0.4 MPa
Movement accommodation factor	10 %
Service temperature range	Min. -10°C to Max. 80°C
Shore A hardness (ISO 868)	50
Tensile Strength (ISO 37)	1.4 MPa
UV & outdoors tolerance	Good

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