

Technical Data Sheet

Date of compilation: 02/06/2021

ARC WOOD SEALANT

DESCRIPTION

Single component solvent free acrylate sealant for sealing joints with sealed and unsealed parquet.

Curing system based on acrylic dispersion.

Benefits

- Readily sandable
- Free of solvent, phthalate, glycol and APEO-free
- Compatible with paints (in accordance with DIN 52452-4, A1 & A2)
- Weather and ageing resistant, good UV resistance
- Long shelf life
- High initial and final adhesion

Areas For Use

For sealing connections and joints with low tensile stress and without constant exposure to moisture, e.g. between parquet, wood, concrete, fiber cement, plasterboard, bare and anodized aluminium, and rigid PVC. Also suitable for bonding expanded polystyrene on absorbent substrates.



YIELD

One cartridge of sealant is sufficient for about 12 running meters of joints measuring 5 x 5 mm or about 3 running meters of joints measuring 10 x 10 mm

APPLICATION INFORMATION

Substrate pretreatment

The substrate must be dry, firm and free of dust and grease. At least one of the surfaces to be bonded must be absorbent or diffusion permeable. Before sealant application, remove any cement slurry, mould release agents or impregnations. In renovation projects, old sealant, remains of paint and loose material must be fully removed. The joint must always be provided with a suitable, correctly dimensioned backing (e.g. PE cord, PE foil) to prevent adhesion on three faces. To avoid contamination and to achieve a precise joint, we recommend masking the joint edges with adhesive tape before primer application and filling.

Joint dimensions

The thickness of the joint should be at least 7 mm. The sealant is capable of levelling uneven patches of up to 15mm.

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Bonding

Bonding can be effected immediately after straight or curved application of the adhesive (using a suitable manual, battery powered or pneumatic caulking gun). Where bonding is effected after a skin has formed, the surfaces to be bonded must be displaced relative to each other so as to break the skin.

Bonding should be completed after a maximum of 15 minutes following application of the adhesive. Corrections are still possible after a short period of time. Depending on the bond thickness, heavy weight parts require additional securing until the initial strength is reached (about 24 hours). Any adhesive tape used can be removed immediately after bonding.

LIMITATIONS

Must not be used in the sanitary sector, on marble/natural stone, in underground applications, on bituminous, tar containing or plasticizer releasing substrates, on untreated (un-primed) metal substrates and for joints in ongoing contact with moisture, e.g. concrete surfaces in contact with the soil.

IMPORTANT INFORMATION

The product must be protected from leaching, e.g. by condensed moisture or rainwater, until a solid skin has formed. Fresh product may be removed with a damp cloth. Clean tools with water immediately after use. Cured product must be removed mechanically. Remaining residues may be softened with water and then wiped off. If applied outdoors, the joint must be protected from driving rain and constant exposure to moisture.

The product cures by means of desiccation. High humidity, low temperature and joint depth above 15 mm can delay skin formation and curing significantly. During drying, the colour will slightly change.

The product is compatible with most paint systems. Owing to the large number of different coating systems on the market, we nevertheless recommend own tests concerning compatibility and adhesion prior to application. Joints subject to expansion must not be overpainted, since most paint systems will crack due to their lower elasticity (compared to the sealant). If joints with low movement are overpainted, the sealant must be allowed to dry for at least seven days.

The function of the product can only be guaranteed if correctly applied in accordance with the technical recommendations given in this data sheet and in related standards. Sealant application in situations with strongly fluctuating temperatures (premature stressing of the sealant) should be avoided.

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TECHNICAL DATA

Property	Value
Density (DIN EN ISO 2811-1)	1.40 ± 0.05g/cm ³
Skin forming time (@23°C/50% RF)	≈ 5 min
Penetration(DIN 51579/5sek)	195 ± 30 1/10mm
Slump (ASTM 2202)	≤2mm
Shore A hardness (DIN 53505, 28 d)	58 ± 6 units
Tensile modulus (DIN EN ISO 8339-A, 100%)	≈ 0.2N/mm ²
Maximum movement tolerance, self-assessment	5%
Mass loss (DIN EN ISO 10563)	max 28%
Water vapour diffusion resistance (23°C, 50% ≥0%)	μ ≈ 3500; sd ≈ 35m @ 10mm thickness
Application temperature (sealant & substrate)	+5°C to +35°C
Temperature stability (fully cured sealant)	-25°C to +80°C
Shelf life (unopened packaging)	12 months (+5°C to +35°C) Protect from frost

Rate of curing depends on temperature, humidity and substrate absorbency. The data given refer to tests at standard conditions (23°C / 50% rel. humidity). Under these conditions, a 10 x 10 mm joint will cure in app. 14 days (with at least one substrate being absorbent). Low temperature, high humidity and joint depth above 15mm will retard skin formation and curing significantly.

Data given were determined shortly after production, and may slightly vary with increasing age of product and for different colours. They are not meant for specifications purposes.

HEALTH & SAFETY

Consult MSDS for full list of hazards.

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.