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Revision No.	25-02

Technical Data Sheet

AS-4036
MS Floor and Wall Bonds

Physical Properties

Base:
One-component MS (Modified silane) polymer

Appearance:
Non-sagging paste (before cure)

Elastic rubber (after cure)

Standard Colour:
(W10) White

Skin-form time:
20 - 25 minutes
(at 25 °C & 50% R.H.)

Application temperature:
15 °C to 35 °C

Service temperature:
-20 °C to 90 °C

Storage:
Store in a dry and cool place with temperature below 30 °C.

Shelf life:
12 months

Packaging:

Content	Quantity
16 kg / pail	1 pail *(2 x 8 kg packs)*
24 kg / pail	1 pail *(3 x 8 kg packs)*
600 ml / Sausage	20 Sausages / Carton

Description

ALSEAL MS Floor and Wall Bonds is a universal construction adhesive based on advanced MS Polymer technology. It cures on exposure to atmospheric moisture, and forms an elastic bond on general building materials, including porous and non-porous surfaces, floors, wall decorative and panels. The adhesive can be troweled easily. It has good weathering and UV resistance properties. This is a safe product as it does not contain hazardous materials like isocyanate, solvents, halogens, and acid.

Features

- Excellent adhesion on most substrates
- Notched trowel ridges hold firm – *Minimize hollow spots by bridging gaps*
- Resistant to aging – *Permanently elastomeric*
- Workability – *Easy to tool*
- Good weathering performance – *UV resistance*
- Paintable
- Free of water, 100% solid content – *No dimensional changes in wood*
- Single-component – *Ready for use, no mixing required*
- Free of isocyanate and formaldehyde – *Non-hazardous formulation*
- Easy surface clean up – *Easy cleaning on substrates*
- Non-flammable, non-hazardous, stable shelf life – *Easy storage*

Applications

Ideal for bonding all types of building materials – including porous and non-porous substrates on horizontal and vertical surfaces: concrete, concrete screeds, cement / sand screeds, anhydrite screeds, wood, artificial grass, plywood, cured leveling compounds, epoxy membrane, OSB (underlayment grade), particle board, gypsum board, ceramic tiles, stone, terrazzo, radiant heated subfloors, metal decking, steel, aluminum, etc. For other applications, please contact us.

Technical Data

Curing system	: Moisture curing
Specific gravity	: 1.66
Ultimate tensile strength (ASTM D412)	: 1.2 N/mm²
Elongation at break (ASTM D412)	: 200%
Shore A hardness (ASTM C661)	: 60

Preparation

- The subfloor must be solid and structurally sound, flat, smooth, clean, and dry.
- The subfloor must be free of dust, dirt, grease, wax, loose paint, oil, sealers of ANY type, curing compounds, bond breakers, asphaltic residue, liquid adhesive remover, strippers, chemicals, or any other foreign substances that can potentially affect bonding.
- The subfloor must be flat to 3mm under a 3m straight edge, otherwise it will increase the risk of hollow spots under timber overlay.
- Any existing coating or adhesives must be completely removed. Mechanical treatment (e.g. shot blasting, grinding or sanding) may be required to achieve the subfloor conditions mentioned above.
- It is recommended to verify that the moisture content of the slab is below 4% by impedance meter (e.g. Tramex) but noting that floor installation is also subject to the wood flooring manufacturers' requirements who may require drier slabs. Flooring manufacturers may also have other slab moisture assessment requirements including in-slab moisture assessment to ASTM F2170.
- To help reduce moisture migration that may result in wood swelling or cupping, **Alseal AS-2507 Epoxy Moisture Barrier** is recommended.
- Radiant heated subfloors should be turned off 24 hours prior to and during installation to prevent premature curing of the adhesive.
- Recommended air temperature during installation – between 10°C - 35°C (50°F - 95°F), Relative Humidity – between 40% and 75%, subject to the requirements specified by wood flooring manufacturer.
- Do not install if the walls and ceilings of the area are not dry (e.g. after plastering or painting etc.).

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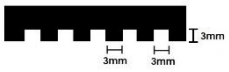
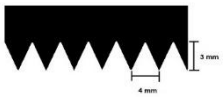
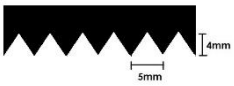
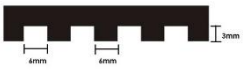
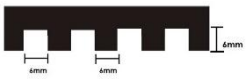
Usage Instructions

Packs in Pail:

1. Remove the lid and cut open the foil liner. Once open, the entire contents should be used within the open time. During laying, the floorboards need to be placed into the adhesive within 30 mins and this is often 3 to 4 rows of board rows at one time.
2. Spread the adhesive with the proper notched trowel, apply uniformly on the subfloor. Avoid adhesive pools and excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45-degree angle.
3. Place wood in the adhesive within working time, correctly position it and press down firmly or tamp down with a rubber hammer to ensure good overall contact. Wood may slip and move at first so be sure to secure the initial row to limit movement and hold patterns.
4. A minimum of 80% of adhesive contact is recommended to achieve proper bonding of the flooring. Heavy objects may be used to hold the wood firmly in place during the curing time, which may also assist if there are some boards with minor bow or boards over low spots in the slab.
5. Restrict foot traffic for a minimum of 12-16 hours. Wait a minimum of 24 hours before sanding and coating.

Note: In relying on mechanical fixing and use of beads of adhesive in applications to plywood, OSB, particleboard, joists or battens, follow wood flooring manufacturer's guidelines for layout, design and any special recommendations for installation.

Coverage

Floor Type	Trowel	Coverage
▪ finger parquet	 Square Notch 3 mm x 3 mm x 3 mm	Up to 2.0 m^2/L
▪ ≤13mm solid wood ▪ ≤13mm engineered wood	 V Notch 4 mm x 3 mm	Up to 1.4 m^2/L
	 V Notch 5 mm x 4 mm	Up to 1.2 m^2/L
▪ 9-13 mm solid wood ▪ >13 mm engineered wood ▪ ≤19 mm parquet	 Square Notch 6 mm x 6 mm x 3 mm	Up to 1.0 m^2/L
▪ >13 mm solid wood ▪ plywood	 Square Notch 6 mm x 6 mm x 6 mm	Up to 0.9 m^2/L
▪ Trowel type and size are selected based on flooring type. ▪ Coverage rates shown are only guidelines. Coverage will vary with trowel size/type, angle the trowel is held to the subfloor, and the absorption level of substrate. ▪ Generally, use a fine trowel for wood of smaller sizes and/or smooth substrates, and a coarse trowel for wood of larger sizes and/or rough substrates.		

Clean Up

- Can be cleaned up with acetone or mineral spirits when wet.
- Cured materials can only be removed mechanically.

Limitations

- Below grade applications are subject to wood flooring manufacturer's recommendations.
- Periodically check coverage of adhesive during installation; 100% substrate coverage and adhesion is required to help protect against subfloor moisture damage.
- Do not use on wet, dusty, contaminated or friable substrates.
- Do not dilute the adhesive.
- Resistant to water, dilute acids, and diluted caustic solutions, temporarily resistant to fuel, animal fats and oils, not resistant to organic acids, concentrated caustic solutions.
- Will not prevent damage to wood flooring induced by excessive moisture transmission.

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Safe Work Practices

Product curing may form hazardous compounds. Ensure adequate ventilation and minimise workplace exposure concentrations. A NIOSH-approved respirator with filter for organic vapours is recommended where local ventilation is not adequate.
Protective goggles / safety glasses are recommended to wear during the job time.

Caution

Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Disclaimer

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.