



WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL BULLETIN

TECHNICAL DATA SHEET 200629SCANF

(supersedes 101126SCANF)

SUBJECT : Adhesion of SOPREMA Roofing Membranes on Wood

The adhesion of SBS modified asphalt membranes is excellent on wood surfaces. However, it is very important to follow the recommendations below in order to avoid problems that could arise under certain conditions.

Planks :

Wood decks are usually made of softwood, with sap that dissolves bitumen. This could cause significant deterioration of the membrane and creates streaks of bitumen under the plank deck. There could be severe consequences to installing membranes over softwood planks. The membranes and the deck itself may even have to be completely replaced.

If there is a risk that the membranes will be affected by sap, SOPREMA recommends not installing a bituminous membrane directly on the plank deck, whatever its function (vapour barrier or waterproofing membrane).

If this type of deck is made of old planks, the surfaces may be irregular, and the presence of used nails and screws could carry a high risk of membrane perforation.

To prevent problems related to this type of substrate, it is recommended to install cover boards mechanically fastened or bonded with **DUOTACK** adhesive to the planks before the application of the membrane.

Plywood Boards :

Although this type of wood carries little risk linked to resin or old mechanical fasteners, membrane delamination or wrinkles may occasionally occur at the junctions of the boards when using a fully adhered system. Wrinkles typically appear soon after installation of the membrane, particularly when humidity in the boards evaporates.

To prevent this occurrence, SOPREMA recommends installing cover boards mechanically fastened to the plywood boards before application of the membranes. Alternately **SOPRAPHIX** or **COLVENT** can be installed directly to a plywood substrate. This measure is not required for plywood on parapets or roofing flashings waterproofed with self-adhesive membranes.



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NOTE : This technical bulletin was prepared by SOPREMA Inc. for architects, engineers, building owners, and contractors, as a reference guide in designing, selecting and constructing roofing, and/or waterproofing and/or air/vapour barriers utilizing SOPREMA Inc. products. SOPREMA Inc. reserves the right to change, or modify, at our discretion, without prior notice, any information, recommendations, or specifications contained in this technical bulletin.

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Oriented Strand Boards (OSB) :

Like plywood, this type of wood also presents little risk associated with resin or old mechanical fasteners. However, when this type of board is used, the surface treated against moisture should always be installed face down.

If not, an adhesion test must be performed to ensure that the treated surface does not affect membrane adhesion and is comparable to untreated surfaces.

Treated Wood :

Pressure-treated wood, whether fire or humidity resistant, is not required in SOPREMA's waterproofing systems. However, when used, the following recommendations apply:

Self-adhesive, hot-bitumen or adhesive-bonded membranes can be installed on pressure-treated wood provided the surface is primed with a primer suitable for the installation of the base sheet membrane.

Surface-treated wood (with a preservation treatment applied using a paint brush or roller) is not an appropriate substrate, no matter what type of membrane is installed. The treatment compromises adhesion of the waterproofing membrane to the wood. However, you may treat the surface of the cut ends of pressure-treated wood.

Cross-Laminated Timber (CLT) :

It is not possible to confirm whether the type of wood used for cross-laminated timber deck involves risks related to sap. If uncertain, it is better to install non-bituminous cover boards mechanically fastened or bonded with **DUOTACK** adhesive to the planks before application of the membrane.

If the contractor confirms that there is no risk for the membranes, then they can be installed provided that the surface is primed with a primer suitable for the installation of the base sheet membrane.

No heat-welding of any type is to be done directly above a wood surface. When this technique is used, non-combustible underlayment and fire baffles must be used to prevent any flame from contacting combustible materials.

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