

Amtico Marine

Installation Guidelines

MAR-IN-16032018-01-GB

Areas of Use

Amtico Marine is suitable for installation on ships and in marine installations, it complies to Modules B and D of the Marine Equipment Directive (MED) and is Wheelmark Certified through Lloyds Register Verification. Amtico Marine meets the safety standards established by the International Maritime Organisation (IMO).

Receiving materials, Conditioning & Storage

Before laying flooring, all materials must be checked to ensure that the batches are identical and free from defects. Complaints with regard to clearly identifiable defects cannot be accepted once the flooring has been laid.

Boxes of tiles should be removed from pallets and separated from one another as part of the acclimatisation process. Ensure that the heating/air conditioning is fitted and operating. Alternatively, temporary heating or cooling may be used to maintain a constant temperature within the specified range.

Tiles, adhesive and subfloor must be allowed to stabilise to a constant temperature between 18°C-27°C for a period of at least 24 hours before, during and after installation. If tiles and adhesive have been stored outside of this temperature range, then it is recommended that acclimatisation is increased to 48 hours. Tiles must be stored flat and kept away from direct sunlight, heaters or air vents for proper conditioning.

Preparation and installation should not begin until all other trades have been completed.

Subfloors

Preparation

The suitability of subfloors and site conditions must be assessed prior to beginning an installation to ensure that they are in accordance with Amtico International, subfloor manufacturers' guidelines, national standards and within MED requirements. These must be of sound construction, hard, smooth and clean (free from grease, dust and other foreign matter), dry and free from cracks and defects.

Existing Resilient Floors:

It is recommended that Amtico Marine is not directly applied over existing resilient flooring. Generally, the old flooring should be removed and the base prepared to suit the type of subfloor uncovered.

Absorbent Subfloors / Smoothing Compounds:

Most subfloors will require an application of a compatible smoothing compound to provide a hard, smooth and level surface to which adhesive and tiles can be applied. Generally these compounds should be applied at a minimum of 3mm thickness. Consult the manufacturer for detailed guidance.

Non-absorbent Subfloors / Resin Based Substrates:

Non-absorbent subfloors should be shot blasted or abraded to create a more absorbent surface. It is then possible to bond directly using urethane adhesives.

Alternatively and in most instances, a smoothing compound, generally applied at a minimum of 3mm thickness can be applied.

Metal:

Direct Application:

The metal surface shall be cleaned/degreased and then prepared by grinding or scarifying to ensure that it is clean and free from any contamination, such as rust or metal oxide. It should be mechanically abraded to give a surface key. It is then possible to bond directly using urethane adhesives.

Indirect Application:

The metal surface shall be cleaned/degreased and then prepared by grinding or scarifying to ensure that it is clean and free from any contamination, such as rust or metal oxide. It should be mechanically abraded to give a surface key. A smoothing compound, generally applied at a minimum of 3mm thickness can then be applied.

Wood Based Substrates:

All existing timber decking must be overlaid with minimum 6mm flooring or Marine grade plywood. A suitable fibre-reinforced smoothing compound should be used to smooth the entire floor area.

Moisture

Substrates should be sufficiently dry, the relative humidity shall not exceed the adhesive/subfloor manufacturers' recommendation or regulations. Moisture measurements shall be documented prior installation.

Adhesive Selection & Application

Amtico Marine must be installed with IMO approved adhesives. Please refer to Amtico Marine Module B for the current range.

Adhesive selection should be based on the conditions on site. For directly bonding to non-absorbent subfloors only urethane based adhesives should be considered. For absorbent subfloors all adhesives in the MED Module B can be used.

Please note that in areas exposed to direct sun or large temperature variations a 2-part urethane or high temperature adhesive must be used.

Follow the instructions on the packaging. Spread the adhesive evenly using an A2 trowel. Do not use worn trowels.

Only spread sufficient adhesive that can be covered within the recommended working time.

Amtico Marine tiles should be rolled with a 45kg (100lbs) roller after laying and before the adhesive sets - timing will depend on site conditions and adhesive selection - see data sheets for more information. Always clean away excess adhesive before it is allowed to dry - use a soft cloth moistened with water.

Do not walk on newly installed floors. Furnishings or equipment can be positioned once the adhesive has fully cured, Refer to the instructions for the adhesive used.

The floor should not be cleaned for 48 hours following installation.

Cleaning and Maintenance

For the full Amtico cleaning and maintenance guidelines please refer to amtico.com