

## DESCRIPTION

MONSTA TAC MS 3 IN 1 TIMBER FLOOR ADHESIVE is a ready-to-use, one-part, flexible timber flooring adhesive. Featuring the latest SiMP technology, it's unique formulation provides essential and superior performance characteristics when used as designed for the installation of engineered, solid timber overlay and timber sheet installations. Monsta Tac MS Timber Floor Adhesive features;

- Superior adhesion to a range of substrates.
- A unique balance of flexibility and cohesive strength in order to accommodate standard seasonal movement and provide a shock absorbing film for enhanced user underfoot comfort.
- Very low certified Volatile Organic Compound (VOC) emissions
- An effective moisture barrier by exhibiting very low moisture vapour permeability allowing installations up to 90% RH when using a Monsta Tac One Step Adhesive trowel blade

## AREAS OF APPLICATION

Monsta Tac MS 3 in 1 Timber Floor Adhesive is designed and recommended for full surface/full trowel bonding of multilayer engineered timber flooring, solid overlay or parquet flooring. It can be used to adhere particle board or timber ply panels to concrete, cement screeds, existing timber flooring, steel access floor or existing ceramic & stone flooring. As is the case with all adhesive applications, it is essential however that the subfloor is sound and stable.

Monsta Tac MS 3 in 1 Timber Floor Adhesive can also be used over heated subfloors in instances where the timber flooring being installed can be recommended for installation over heated subfloors. All underfloor heating should be covered by floor preparation prior to installation, please refer to Ardex product literature for subfloor preparation requirements and recommendations prior to installation.

## APPLICATION

All surfaces to be bonded must be solid and structurally sound. They also need to be perfectly clean, dry and free of dust, grease, wax or any other contaminants.

- Concrete subfloors should be structurally sound in all aspects. Alkalinity levels should be no higher pH than 10 and it is strongly recommended to check for signs of laitance or curing compounds prior to installation as both will need to be removed prior to application of adhesives.
- For subfloors with excessive moisture above 80% and up to 90% RH use Monsta Tac 3 in 1 installation method
- For subfloors with excessive moisture above 90% and up to 98% RH use Monsta Tac One Day Seal & Lay for direct stick applications. If levelling is required use Ardex PU30 Rapid for installations above 80% RH. For subfloors with moisture beyond 98% or containing hydrostatic pressure, use Ardex WPM 300. Monsta Tac MS 3 in 1 Timber Floor Adhesive will directly adhere to Ardex moisture barriers. All moisture remediation should be installed prior to the application of levelling compounds.

- Timber subfloors should be structurally sound and solid. It is recommended that subfloor ventilation be checked and found adequate prior to installation. It is also recommended that chipboard subfloors be sheathed with an underlay or an Ardex approved levelling system such as K15 prior to application of adhesive. Chipboard can be manufactured with high wax contents that can inhibit adhesion therefore proper preparation is essential. Any coated timber subfloors should be sanded and vacuumed thoroughly to remove any floor coating, waxes or oils prior to application of adhesive.
- Monsta Tac MS 3 in 1 Timber Floor Adhesive can be applied over existing ceramic or stone flooring. It is essential, however, to ensure that the existing tiles are well adhered to the subfloor and are structurally sound. It is also essential to ensure the surface is free of oily substances, greases or acid or alkaline residues and cleaning detergents. Carefully clean and thoroughly dry the surface prior to installation of the timber flooring. Existing prominent grout lines that lead to an uneven surface, need to be filled and/or levelled.
- Heated concrete subfloor installation should follow the guidelines of the timber flooring supplier in terms of acclimatization and any pre/post conditioning obligations.
- If subfloor levelling is needed refer to Ardex preparation systems for a complete “System” warranty. Once the pail is open, remove the aluminum foil that covers the adhesive and set it aside. When using as a 3 in 1 Adhesive with moisture barrier – apply the adhesive with a “Monsta Tac One Step Adhesive Trowel Blade. Distributing it evenly to obtain a good ‘wetting’ of the surface. (Coverage approximately 12-14m<sup>2</sup>) When using as a standard timber adhesive – apply the adhesive with a 3-4mm deep ‘V’ notched trowel. Depending on selected flooring type and dimensions, or condition of the slab, a larger notch size trowel may be recommended. Distributing it evenly to obtain a good ‘wetting’ of the surface. (Coverage approximately 14-18m<sup>2</sup>). Please ensure that you lay the timber flooring into the wet adhesives film (usually within 40 minutes). If the full pail of adhesive isn’t used, cover the remaining adhesive with the original aluminum foil, making sure that the foil it touches the product and there is not too much air between the foil and the adhesive. Then replace the lid asap. The resultant part filled pail should be used in a relatively short period time of after opening. The product must never be diluted in any way. Should an installation be undertaken over two days, it is important to use a flat trowel to spread a continuous, flat film of adhesive 300mm wide where you finish on day one. This will mean that the next days adhesive will be notch troweled over the flat film of adhesive to ensure an “overlap” is created in the moisture barrier.

### **IMPORTANT NOTES**

Installation area should be – room temperature of 15-30 °C, as well as room humidity preferably between 40-65 %, maximum 75%. Before starting installations on concrete subfloors, moisture test must be conducted. Emission of moisture through the subfloor should not exceed 80% RH with in-situ probe method (ASTM F 2170-02) or 3 pounds / 1.000 sq. ft. / 24 hours with moisture vapour emission rate surface test (ASTM F1869).

Alternatively, Monsta Tac MS 3 in 1 Timber Floor Adhesive can also be used for the installation of wood flooring with T&G by utilizing a Monsta Tac One Step Adhesive Trowel Blade on moist concrete slabs up to 90% RH with in-situ probe method (ASTM F 2170-02) or 12 pounds/1.000 sq. ft. / 24 hours with moisture vapour emission rate surface test (ASTM F1869). The installation of bamboo products over concrete requires two coats of Monsta Tac One Day Seal & Lay Moisture Barrier regardless of the moisture content of the concrete.

### **CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES**

Clean tools immediately after use with Nexus Adhesive Remover or Nexus 490 Solvent Cleaner. After adhesive has set completely, it can only be removed by mechanical means. Dried adhesive may be softened using a Nexus Adhesive Remover or Nexus 490 Solvent Cleaner. **IMPORTANT:** Do not use Nexus 490 Solvent Cleaner directly on finish floor covering, as the solvent cleaner can potentially cause damage to the surface.

## TYPICAL PROPERTIES

Appearance	Thick cream coloured paste
Coverage	0.8-1m <sup>2</sup> /kg Acoustic Underlays 1-1.25m <sup>2</sup> /kg Mosaic Parquet, Small formatted parquet, Timber underlays 1.1-1.4m <sup>2</sup> /kg. Large-sized multi-layer timber 0.4-0.5m <sup>2</sup> /kg. All-In-One Blade
Open Time Approx.	40 minutes at 50% Relative Humidity and 20°C
Curing Time	24 hours
Packaging	18 kg pails
Shelf Life	12 months in sealed container at 20°C
VOC Content	<0.5g/L (SCAQMD Method 304-91)
Water Vapor Transmission	0.293g/(m <sup>2</sup> ·h) (ASTM E96)