ASLAN®
EXPERTISE IN SELF-ADHESIVE FILMS

For the application of MonsterTack ASLAN DFP 05 on plywood surfaces

Thank you for choosing our high-quality film.

MonsterTack ASLAN DFP 05 is a self-adhesive, polymeric softened film with special adhesive technology for applications to the most challenging surfaces.

Basic information on application

If the surface is generally suitable for installation, you should clean it thoroughly beforehand. Make sure that it is free of dust, dirt, grease and cleaning agents and that it is dry.

The film must be applied dry. We recommend using our ASLAN Application Tape SuperTackTape ASLAN TF 200, to apply lettering and plotter cut motifs. If the film is used for plotter cut items, weeding must be carried out immediately after cutting to prevent the adhesive from closing on the cut line.

MonsterTack ASLAN DFP 05 has been developed for applications to the most challenging surfaces. It has a unique adhesive formulation with particularly high adhesive strength for use on the most difficult substrates. These include low-energy and plywood surfaces (e.g. box trailers), petrol pumps, applications with high mechanical stress, e. g. motocross, as well as applications on cold substrates or application temperatures from -10° C.

The polymeric softened digital printing film can be used in combination with polymeric softened laminates, such as PremiumProtect ASLAN SL 17, PremiumProtect Matt ASLAN SL 18 or MagicProtect Matt ASLAN SL 99 for additional protection against graffiti. When applied to non-stick coated substrates such as box bodies of trailers made of plastic-coated plywood panels, correct application is crucial for a good long-term result.

Application to plywood surfaces

MonsterTack ASLAN DFP 05 is the ideal film for a reliable hold on the most challenging surfaces such as non-stick coated substrates of plywood boards.

To ensure that the film adheres securely to the substrate in the long term, please observe the following processing steps:

Preparation: Before application, both the surface to be covered and the printed, laminated film must be acclimatised at room temperature for at least 12 hours to avoid significant temperature differences. Ideally, the film should be brought into the production area 24-48 hours prior to processing to allow even the innermost layers to adjust to the ambient climate. Application should take place at room temperature, ideally between 15° C (59° F) and 25° C (77° F), and at a relative humidity of 45 % to 65 %.

Pre-treatment: Thorough pre-cleaning of the surface is essential, especially for rough substrates where cleaning must reach deeper levels. Spray the entire surface with a high-performance cleaner for lorries and commercial vehicles and allow it to act for five minutes. Then rinse off using a high-pressure washer and allow the surface to dry thoroughly – no residual moisture must remain.

Printing: Particularly when printing large areas of colour, the drying times of the inks must be observed. We recommend allowing 48 hours. To minimise material shrinkage, it is advisable to leave a 1 cm unprinted border around all edges.

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Laminating: For rough plywood surfaces, we recommend using a cast laminate with a thickness of less than 50 µm (2 mil) to ensure the film conforms precisely to the textured surface. When using calendered laminates, no guarantee can be given regarding the performance or suitability of the laminated combination for the intended application, as there is a risk of deformation and wrinkling.

Application of the film: To prevent water from penetrating between the film and the substrate, the compound of film and laminate must be applied to the entire surface using heat. It is essential to work the film into the surface using a soft roller and heatgun, maintaining a recommended surface temperature of 50° C (122° F) to 60° C (140° F). For easier application, a combined pressure roller with heatgun can be used. Finally, heat the entire surface again using the heatgun and work it in with a roller. The surface temperature should reach approx. 80° C (176° F) to break open the material's molecular structure so that the film can fully conform to the surface texture. This process eliminates the material's memory effect, allowing it to retain its new shape.

Edge sealing: After application, the edges must be sealed to prevent moisture ingress between the film and the substrate (capillary effect). We recommend a transparent silicone or polyurethane suitable for outdoor use. When sealing edges, allowance must be made for film shrinkage of up to 0.4 mm (FINAT TM14). Edge sealing pens (solvent-based) are not suitable for rough surfaces and are not recommended.

Post-application: After installation, a resting period of up to 72 hours, but at least 48 hours, should be observed to prevent temperature fluctuations affecting the adhesive strength. Should any areas lift due to moisture ingress, the adhesive can be reactivated by reheating with a heatgun and pressing the film back onto the surface using a roller. As long as the adhesive is not contaminated and has dried again, its original adhesive strength will return.

If you have any questions about special applications, please contact our technical advice: +49 2204 70880

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