



Tensor[®]

SPRAY MANUAL



HOW2

TUTORIAL SERIES

WATCH OUR ADHESIVE EXPERTS
DEMONSTRATE STEP-BY-STEP HOW
TO USE TENSORGRIP® ADHESIVES IN
OUR ONLINE TUTORIAL SERIES!



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SPRAY PATTERNS

IDENTIFYING SPRAY PATTERNS

****IMPORTANT** ALWAYS CHECK WHAT TYPE OF SPRAY PATTERN YOUR ADHESIVE HAS BEFORE SPRAYING.**

It is imperative that you identify the type of spray pattern that will be released from the canister; failure to identify this can lead to improper applications and undesired results. To confirm the product's spray pattern, simply check the label and compare with the options below.



SPRAY PATTERN TYPES



WEB SPRAY

Description:

The easiest visual comparison that can be made to a Web spray is that of a spider's web, hence the name!



MIST SPRAY

Description:

Mist spray adhesives are released from the container as a fine mist, which creates a light and consistent droplet pattern on the surface it is sprayed upon.



PEBBLE SPRAY

Description:

Pebble sprays are similar to Mist sprays however the pattern is made up of larger droplets, but still giving a smooth and consistent pattern on the surface.



SNOWFLAKE SPRAY

Description:

Snowflake spray adhesives have a High build, large flake spray pattern which resemble snowflakes across the surface for single-sided bonds.



BEAD SPRAY

Description:

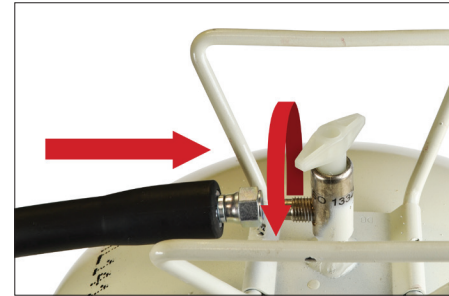
Bead pattern adhesive have a narrow bead that is extruded from the gun without any spray tip fitted. This pattern is mainly used for Pur applications.



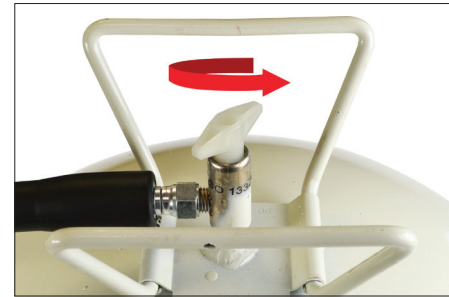
SETUP PREPARATIONS



1. Screw the larger hose nut to the gun thread (clockwise) and fully tighten with a spanner. Check hose is securely attached.



2. Screw the smaller hose nut to the canister valve (clockwise) and fully tighten with a spanner. Check the hose is securely attached.



3. Turn the canister valve anti-clockwise until fully open. Check connections for any leaks and if any occur, tighten connections. **DO NOT TURN THE CANISTER VALVE OFF UNTIL THE CANISTER IS EMPTY** (this is to prevent the adhesive curing in the hose and gun).



4. On initial use, or if the product has been standing for more than 12 hours, purge the hose. Pull the trigger and adjust the flow by turning the adjustment screw behind the trigger (anticlockwise to open and clockwise to close). Dispense and discard adhesive until a consistent spray is achieved.

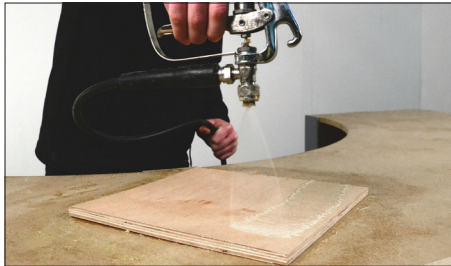


WEB SPRAY

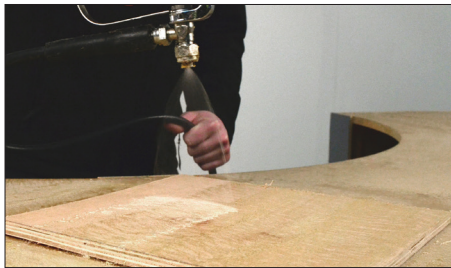
APPLICATION



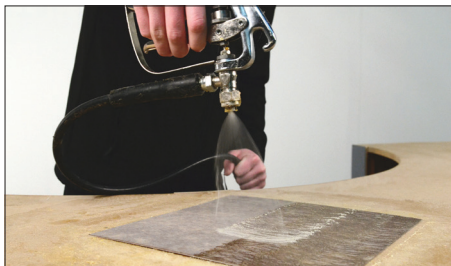
1. Prepare the surface to be bonded; ensuring both faces are clean, free of dust, dirt and grease. If necessary wipe clean with proprietary solvent-based cleaner. **DO NOT USE WHITE SPIRIT, MINERAL TURPENTINE OR CITRUS-BASED CLEANERS.**



2. Hold spray gun at a constant distance of between 100-250mm from the surface, spray the surface with approx. 50-70% overlap to successive passes for thin laminates to reduce risk of telegraphing (**note:** correct coverage must be achieved).



3. Maintain a constant speed of application during spraying, do not allow the adhesive to puddle or heavily 'wet' the surface. Maximum bond strength is achieved with coverage of 80-100%, and a minimum coat weight of 20 dry grams per m².



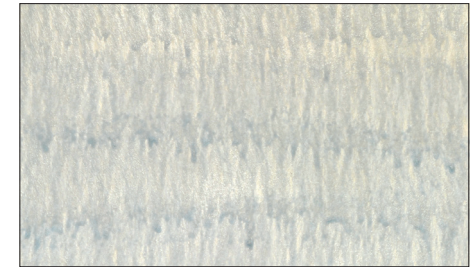
4. Maximum adhesion will be obtained by spraying mating faces at 90° to each other, i.e. one face vertically, the other face horizontally. Double coating perimeter of face and edges is recommended, including areas around subsequent cutting positions.

BONDING TECHNIQUES

- Do not angle spray gun or move in an arc while spraying. Hold gun at 90° to surface. Release trigger at end of each pass to optimize coverage.
- Many man-made boards such as plywood, flexi-ply and MDF are very absorbent and will need a primer coat (shown in 'COVERAGE TOO LIGHT' picture). Allow to dry, then apply the normal 'CORRECT APPLICATION', as shown, over top of primer coat.
- some substrates can be difficult to bond, e.g. metal faced HPL, Colorcore etc. or products with memory (soft and thick materials may require 2 or 3 coats). Best results are obtained by multiple coats rather than one heavy coat which may result in heavy wetting and extended drying times. Always test before using in production.
- Allow adhesive to dry. Test for dryness using back of hand only; surface should be tacky but adhesive should not transfer to skin. Position substrates correctly and press together working from centre outwards. Apply adequate pressure using nip or hand roller as a minimum in order to achieve at least 35psi at glue line. **Note;** repositioning is **NOT** possible after bonding.
- Immediate trimming/routing is possible. Full strength is achieved after 24-48 hours depending on temperature and humidity.



COVERAGE TOO LIGHT



COVERAGE TOO HEAVY



CORRECT APPLICATION = 20 dry gms/sqm



75mm HAND ROLLER



MIST OR PEBBLE SPRAY

APPLICATION



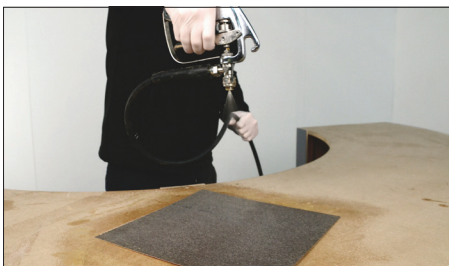
1. Prepare the surface to be bonded; ensuring both faces are clean, free of dust, dirt and grease. If necessary wipe clean with proprietary solvent-based cleaner. **DO NOT USE WHITE SPIRIT, MINERAL TURPENTINE OR CITRUS-BASED CLEANERS.**



2. Hold spray gun at a constant 200-400mm from the surface, allowing the adhesive to droplet across the surface with approximately 50-70% overlap to successive passes for thin laminates to reduce risk of telegraphing (**note:** correct coat weight must be achieved).



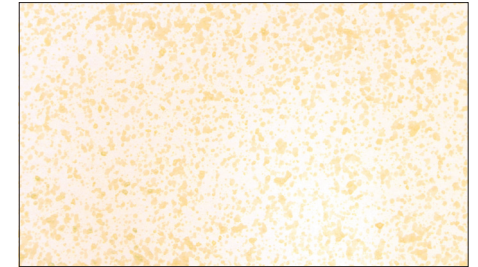
3. Maintain a constant speed of application during spraying, applying a thorough coating without allowing the adhesive to puddle or heavily 'wet' the surface. Maximum bond strength is achieved with coverage of between 80-100%. Recommended minimum coat weight - 20 dry grams per m².



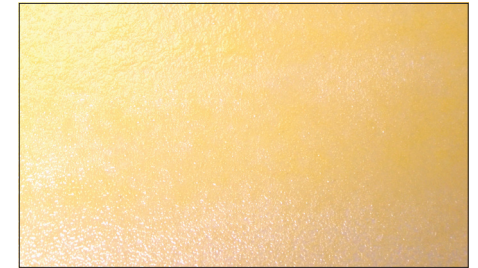
4. Maximum adhesion is obtained by spraying mating faces at 90° to each other, i.e. one face vertically, the other face horizontally. Double coating perimeter of face and edges and cutting positions is recommended.

BONDING TECHNIQUES

- Do not angle spray gun or move in an arc while spraying. Hold gun at 45° to surface while spraying. Release trigger at end of each pass to optimize coverage.
- Many man-made boards such as plywood, flexi-ply and MDF are very absorbent and will need a primer coat (shown in 'COVERAGE TOO LIGHT' picture). Allow to dry, then apply the normal 'CORRECT APPLICATION', as shown, over top of primer coat.
- Some substrates can be difficult to bond, e.g. metal faced HPL, Colorcore etc. or products with memory (soft and thick materials may require 2 or 3 coats). Best results are obtained by multiple coats rather than one heavy coat which may result in heavy wetting and extended drying times. Always test before using in production.
- Allow adhesive to dry. Test for dryness using back of hand only; surface should be dry and adhesive should not transfer to skin. Position substrates correctly and press together working from centre outwards. Apply adequate pressure using nip or hand roller (**Note:** repositioning is **NOT** possible after bonding)
- Immediate trimming/routing is possible. Full strength is achieved after 24-48 hours depending on temperature and humidity.



COVERAGE TOO LIGHT



COVERAGE TOO HEAVY



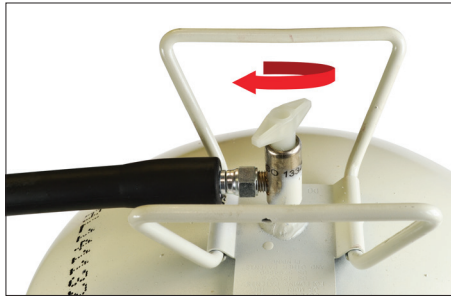
CORRECT APPLICATION = 20 dry gms/sqm



75mm HAND ROLLER



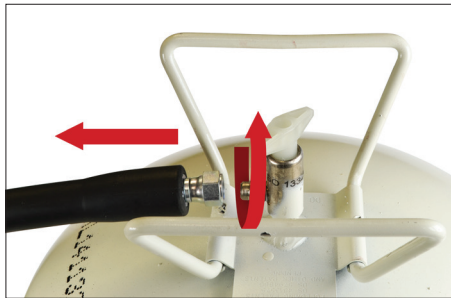
CHANGING TO A NEW CANISTER



IMPORTANT: SAFETY GLASSES AND GLOVES MUST BE WORN DURING THE DISPOSAL PROCESS

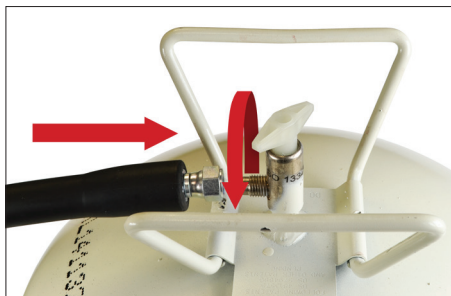
STEP 1

Turn the canister valve clockwise until fully closed.



STEP 2

Pull the trigger on the gun and hold until hose is drained to expel residual pressure.



STEP 3

Unscrew the hose nut and disconnect the hose from the empty canister (move to next page for canister disposal).

STEP 4

Connect the hose and gun to the new canister (go to Step 2 of PREPARATION and follow the process through to Step 4).

IMPORTANT NOTE: THIS PROCESS SHOULD BE FOLLOWED THROUGH IMMEDIATELY AND ADHESIVE SHOULD BE DISPENSED FROM THE NEW CANISTER OR THE GUN AND HOSE WILL BLOCK AND BECOME UNUSABLE.

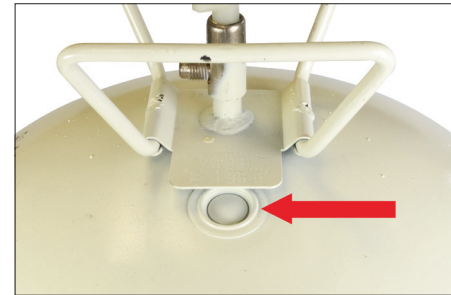
If you are not transferring the hose and gun to a new canister you will need to flush it with solvent to ensure it can be used again on future jobs.



DISPOSING OF EMPTY CANISTERS



1. Lay the empty canister on its side with the valve pointing AWAY from the operator, and well away from sources of ignition.
2. Open the canister valve and release any residual pressure.
3. Stand canister upright. Use a hammer and brass punch or other non-sparking instrument to puncture the friable disc.
4. As long as the user is able to accept responsibility for de-pressurising the canister, it can be disposed of as per normal scrap metal disposal (subject to local waste regulations).
5. Find out where you can recycle your canister at <http://recyclingnearyou.com.au/>



TRANSPORT INFORMATION



During transport, the recommended PPE (Refer to MSDS), First Aid Kit and suitable Fire Extinguisher should be readily accessible in the vehicle. Keep vehicle well ventilated at all times. Secure canister during transportation.

GUARANTEE

Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



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