

installation guide



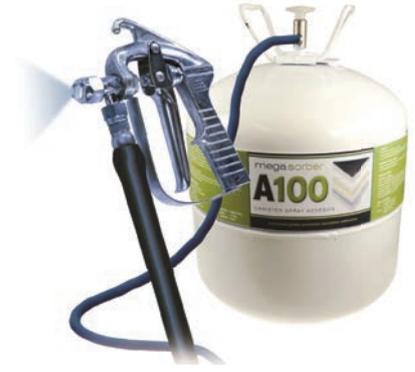
A100

A100 Spray Contact Adhesive
Canister System

megasorber®

A100

Megasorber A100 Spray Contact Adhesive Canister System set up, spraying and shut down instructions.



Connecting hose and spray gun to new canister

1. Ensure that PPE is available and in use.
2. Items required for set up of system are; Canister, Adhesive Transfer Hose, Airless Adhesive Spray Gun & Wrench.
3. Roll canister backwards & forwards vigorously for 1-2 minutes to ensure adhesive has not settled or separated during transit.
4. Attach hose and spray gun to cylinder. Use wrench to tighten fitting $\frac{1}{4}$ turn more than finger tight. Ensure that the connection is tightened sufficiently to prohibit any leakage of pressure or adhesive from the connection points, however do not over tighten as brass threads can strip easily.
5. Open stop valve completely.
6. Keep stop valve open and hose pressurised at all times. DO NOT shut off the stop valve at any time until the canister is depleted of adhesive or you intend to transfer the Spray Gun & Hose set to another Canister product. See disconnecting instructions for further steps relating to shutting off the stop valve.
7. Do not disconnect hose from empty canister until ready to reconnect to new canister even when depleted of adhesive.
8. Refer to Spray Pattern Guide to proceed further.
9. Adhesive system is ready for use.

Applying adhesive

1. Surfaces to be bonded must be clean and free from dirt, dust, moisture & oil. Allow any surface cleaners to completely evaporate before applying adhesive.
2. Apply adhesive to substrate and to panel - ensuring the spray patterns are perpendicular. See Figure 1.
3. Apply enough adhesive to both surfaces of the materials to be bonded. The adhesive must cover at least 80% of the surface of the acoustic panel and the substrate, apply evenly without allowing adhesive to puddle. See Figure 2.
4. All common substrates including plasterboard, timber, MDF, block and/or concrete must be suitably sealed prior to application of adhesive.
5. When applying Megasorber A100 to porous materials, such as Megasorber acoustic foam and polyester panels, it is recommended applying two coats in a perpendicular direction. (1) Apply the first coat and allow to dry. This will act as a sealer. (2) When dry apply the second coat and allow to tack properly before bonding. This helps to ensure that the adhesive does not soak-in to substrate and that you have the proper amount on the surface to achieve a strong, permanent bond.

Spray Patterns

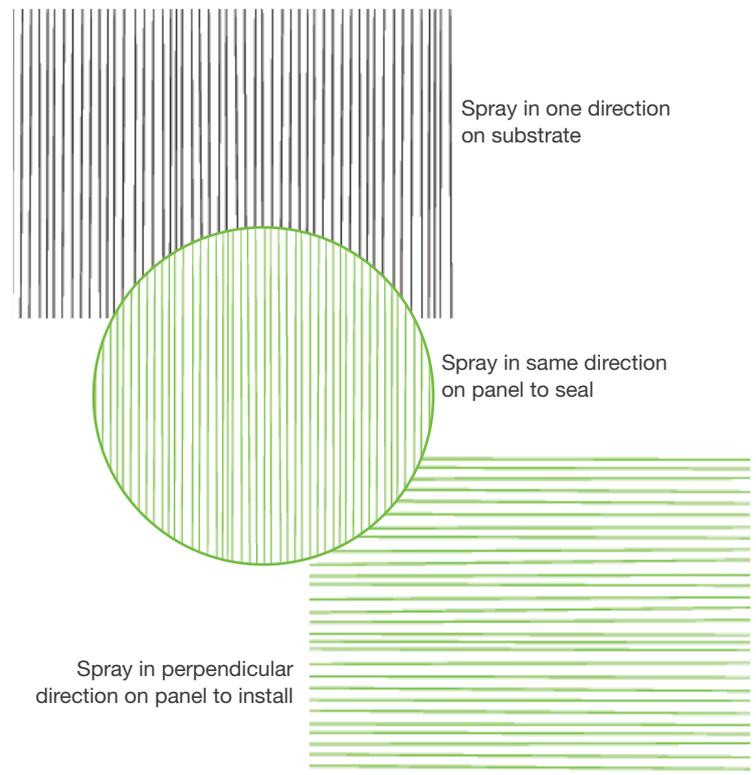


Figure 1. Substrate & Panel Spray Patterns

Figure 2. Representation of spray patterns.



Representation of a **TOO LIGHT** pattern as sprayed too quickly across the substrate. The pattern shows significant voids and indicates little adhesive disposition



Representation of a **GOOD** pattern as sprayed from a properly adjusted gun. The pattern should have at least 90% of the surface covered with at least 2.5 grams of dry adhesive deposited per square foot of substrate



Representation of a **TOO HEAVY** pattern as sprayed too slowly with an improperly adjusted gun. The pattern shows significant bubbling and agglomeration that can lead to solvent entrapment and poor coverage.

The company makes no guarantees based on these representations, being a two dimensional image that cannot accurately indicate the actual weight of material deposited, nor the suitability of the application.

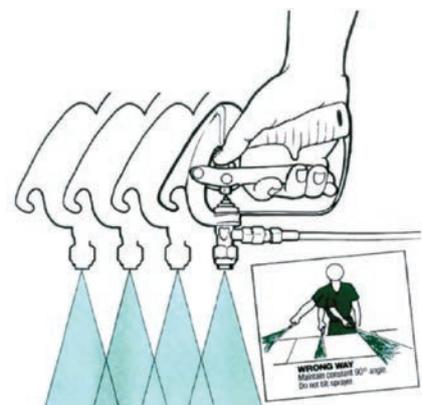
Installing panels

1. Allow the adhesive to tack properly before bonding. To check for tack use the back of your fingers and press into the adhesive and lift up. Any adhesive transfer or legging indicates that the adhesive requires more time to tack. If the adhesive feels tacky, but there is no transfer or legging, the adhesive is ready for bonding. If there are heavy areas of adhesive present, press the back of your fingers in the adhesive and twist. If a skin has formed, this will tear it open and allow you to notice that the adhesive requires more dry time. Do not use the palm of your hand to check for dryness.
2. Dry time can vary depending on temperature, humidity and coating weight. adhesive should be dry to the touch in 3 to 5 minutes. Bonding should be completed within 10 minutes of adhesive being touch dry.
3. Position the pieces carefully, as a strong bond is made instantly upon contact. Important note: A100 adhesive is not designed for re-positioning of panels or parts. Megasorber A200 adhesive is recommended if re-positioning or adjustment is required after bonding.
4. Use uniform pressure to ensure good film fusion. If a roller is used for applying pressure, apply firm pressure possible without causing any damage or creases on the acoustic panels.

Proper adhesive spray patterns and coverage

1. Occasionally when using a new canister for the first time, there may be an initial discharge of solvent. This normally comes out of the spray tip as a narrow stream. Allow this to be expelled until an even spray pattern is achieved.
2. Spray adhesive with spray gun held at 90° perpendicular, to the surface. See Figure 2.
3. Maintain a constant distance between the spray head and the surface of 120mm-180mm, (this may take some experimentation to get this process correct).
4. Maintain a constant speed of application to ensure an even application of adhesive. Spray at 50% overlaps.
5. The trigger pressure should be held constant until the adhesive spray is beyond the edge of the surfaces being bonded.
6. Spray one surface vertically on the acoustic panels and the surface of the substrate horizontally to achieve maximum adhesive contact.

Figure 3. Guide to spraying & bonding techniques



Canister Accessories

We recommend using genuine accessories with Megasorber A100 canisters. A 4m hose and high performance spray gun are available - please contact the Megasorber team for a quotation.



Shut down of canister system

1. Ensure a replacement canister is available for connection.
2. Shut off stop valve completely.
3. Spray out residual pressure from the gun and hose and ensure that this completely discharges.
4. Undo the Hose from the canister connection point and transfer to new canister.
5. Connect to new canister following the connecting hose and spray gun instructions as previously outlined.
6. Return to depleted canister and face outlet away from yourself. Re-open the stop valve completely and drain any residual pressure from the canister. Ensure the canister is completely drained of pressure.
7. Locate and puncture with a hammer and tool the pressure relief valve located near the base of the canister handle.
8. Dispose of depleted canister to a MS metal recycling facility.

Special Precautions

1. For optimum results store canister above 18°C during use, but must always be above 10°C.
2. Keep canister off cold concrete floors during use. If adhesive is expelled wet or as a jet, canister is too cold – move to warm environment and allow to thoroughly acclimatise before reusing.
3. Megasorber A100 is not recommended for bonding materials with plasticizers (Megasorber A200 is recommended). We recommend conducting bonding tests to ensure Megasorber products are fit for purpose;
4. A100 adhesive is not suitable for substrates that have an uneven or textured surface (Megasorber A200 is recommended). An adhesion test is recommended for powder coated panels and for substrates with low surface energy, such as polypropylene (PP) and similar.

Cleaning

Megaorber AC5 cleaner is recommended for adhesive removal and cleaning.

AC5 can be used to clean the hose and spray gun as required

Do not use Megasorber AC5 to clean the panel or Soundmesh G8 facing.



Important notice and disclaimer:

These recommendations are for general guidance only. Installation methods must be tested under actual service conditions to determine their suitability for a particular purpose. Refer to the Megasorber A100 technical datasheet for more details.