



Canister Adhesives and Cold Weather

How Cold Weather Affects Canister Adhesives:

1. When exposed to cold temperatures, below 60F, the adhesive in the canister will increase in viscosity or thicken.
2. The propellants used will decrease in pressure resulting in lower pressure to force a thicker, more viscous liquid up through the dip tube and out the hose to the spray gun.
3. Liquefied gas propellants exhibit a decrease in pressure in proportion to the decrease in temperature.
4. Compressed gas propellants will contract or shrink when exposed to cold temperatures.
5. This results in improper spray patterns ranging from spitting and sputtering (intermittent gaps in the spray pattern) to the canister expelling the adhesive in a stream with no pattern at all. This can also result in longer dry times required for the adhesive and potentially poor bonds.

How to Reduce Cold Weather Canister Issues:

1. Store the cylinders in a controlled environment with temperatures between 60° -80°F (16°-27°C).
2. Keep canisters off of cold concrete floors and away from outside walls.
3. Allow additional time for solvents and propellants to flash off, when temperatures are below 60°F (16°C).

If A Canister Gets Too Cold:

If canisters have been exposed to temperatures that are causing poor spray properties, move them to an area that is heated above 70°F (21°C). The larger the canister, the longer it will take for the contents to warm to the temperature required for proper spray patterns to develop. Smaller canisters can be placed in a deep sink filled with warm water to speed the warming process. Once the cylinders equilibrate back to at least 60°F (16°C), the products will perform as normal.

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