

## Sprayable Polyurethane Canister (MCPU Adhesive)

Moisture-Curing Polyurethane (MCPU) Canister Adhesive allows you to securely and professionally bond Fleece Reinforced EPDM membrane to a wide range of roof substrates, including tissue faced insulation board, timber, metal and other standard substrates. It meets the contractor's demand for a high-performance PU adhesive, with a quick and simple application-system ideal for both large and small scale fieldwork.

Specially formulated for gun application, providing contractors excellent temperature resistance (-30 to 150°C) and great aging properties, but also an application system that reduces the amount of time it takes to securely lay Fleece Reinforced EPDM membranes.

The only MCPU canister adhesive on the market to provide this. The canister system allows you the contractor to apply adhesive quickly and efficiently, whilst its fast cure-time also minimises the amount of time spent waiting onsite.



## Intended Uses

MCPU Canister Adhesive allows your professional contractor to apply adhesive and secure Fleece Reinforced EPDM membrane, with less effort, fatigue and in a shorter amount of time than a standard roller-applied adhesive.

## Features and Benefits

- **Quick, simple and professional application: 4x faster application and faster cure**

ClassicBond PRO MCPU allows you the contractor to minimise the time it takes to complete jobs. It is up to four times faster to apply than standard roller applied adhesives due to the spray-application system. It also cures much more quickly than a standard roller-applied adhesive but still allows you time to position and smooth the membrane.

- **Economical coverage rates: One-way stick, reduced waste**

The overall 'onsite cost' is a key concern to the contractor, ClassicBond PRO MCPU has been developed with this in mind. It has an economical coverage rate; one canister will easily cover up to 180m<sup>2</sup>. Minimal adhesive is required to ensure a strong bond because it is a one-way stick system (adhesive is applied to substrate only). Wastage is also reduced due to the precise application method, which allows for professional application with no lost adhesive in the bottom of containers.

- **Exceeds BRE approved wind uplift requirements:**

ClassicBond PRO MCPU significantly exceed independent standards for resistance to wind uplift. They have been rigorously and independently tested at BRE premises, using BSI EN 1991-1-4 guidelines\*, where they achieved a resistance figure of -5500Pa. Typical wind uplift pressure is -1000Pa in London and -2000Pa in Inverness. This gives safety factors of 5.5 for London and 2.75 for Inverness.

- **Minimises back pain & tiredness: reduces bending, stooping and shoulder pain**

Back pain and fatigue is a common complaint of contractors, and it is often caused by bending and stooping to apply roller-applied adhesives. Such actions can cause labour-fatigue, which is not only incredibly uncomfortable and unpleasant for your contractor, but it can have a detrimental impact on their speed of work. ClassicBond PRO MCPU eliminates repetitive bending and stooping because it is applied via a 3m hose/applicator, which allows your contractor to lay membrane quickly and safely. It is also simple to carry onsite as it is one piece of equipment. You will need to carry three 15 litre WBA buckets to get the same coverage.

## Guidelines for Use:

1. Ensure the insulation board or other roof substrate is dry and clean from grease, dirt and other contaminants before applying adhesive.
2. Set the canister up as described in the Set-Up and Maintenance Guide.
3. Mark out the area to be bonded. Ensure the ClassicBond PRO Fleece Reinforced is cut to size and in position.
4. Protect membrane edge/seam to be joined from becoming contaminated with adhesive.
5. Remove any overspray from the surface of the membrane with a dry cloth or ClassicBond PRO Membrane Cleaner.
6. Ensure the canister is spraying correctly and the spray pattern is 300mm wide.
7. Secure the canister in an upright in a suitable position and apply adhesive to the substrate.
8. Apply adhesive to the deck surface, ensuring each three metre pass takes a minimum of 15 seconds.
9. Allow the solvents to evaporate from the adhesive layer for a minimum of five minutes at 20°C. NB: this time will vary depending on climatic conditions. To ensure grab, allow adhesive to become sticky, but do not allow to skin before covering.
10. Roll the ClassicBond PRO Fleece Reinforced into the adhesive layer and consolidate the bond using a squeegee or water filled roller.

## Packaging:

Is supplied as the Polyurethane Canister Adhesive (450mmx330mm) in cardboard carry box.  
Other components required and supplied separately include: applicator gun, 3m hose & spray tips.

## Technical Data

Appearance	Pink	Open-Time	10 minutes at 20°C
Temperature Resistance	-30 to 150°C	Application Temperature	5-30°C
Coverage Rate	up to 180m <sup>2</sup> per canister	Storage	5-30°C
Cure-Time	60 minutes at 20°C	Environmental	Solvent/Flammable/Hazardous

### \*\*\*Exceeds BRE approved wind uplift requirements:

ClassicBond PRO MCPU Adhesive significantly exceed independent standards for resistance to wind uplift. They have been rigorously and independently tested at BRE premises, using BSI EN 1991-1-4 guidelines\*, where they achieved a resistance figure of -5500Pa. Typical wind uplift pressure is -1000Pa in London and -2000Pa in Inverness. This gives safety factors of 5.5 for London and 2.75 for Inverness.

## Important Notes:

**Open-time and cure-time:** All information is provided as a guideline only. Cure-time and open-time are dependent on a range of variables: temperature, substrate being bonded, method of application and weight of product applied. Flex-R. highly recommends that testing is conducted prior to application.

**Temperature and Timings:** All information on temperature and timings represent normal working conditions and is provided as a guideline only. However, please contact Flex-R for advice if you wish to operate outside of these parameters.

**Disclaimer:** Every care has been taken to ensure that the information provided in the literature is correct and up to date. However, it is not intended to form any part of a contract or provide a guarantee. Purchasers/intending purchasers should contact Flex-R. to check whether there have been any changes to the information since publication of the literature.

## Set-Up and Maintenance Guide

### Canister Set-up Guide:

NB: It is important to set-up your ClassicBond PRO MCPU Canister Adhesive (the spray-system) correctly before use to ensure the best possible performance and to avoid leakage or system failure

1. Remove the black cap from the canister valve.
2. Attach the braided-hose to the canister valve (using the small nut). Tighten with a spanner (see image 1).
3. Attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner (see image 2).
4. Using the locking-nut provided, attach the spray-tip to the end of the spray-gun. Carefully tighten the spray-tip.(see image 3).
5. Fully open the valve on the canister.
6. Pull the trigger on the spray-gun to apply the adhesive.
7. Adjust the spray pattern by turning the black valve on the spray-gun anti-clockwise until you have a spray pattern approximately 300mm in width (see image 4).



Image 1: Canister with the braided-hose attached properly.



Image 3: Attach the spray-tip.



Image 2: Braided-hose and spray-gun.



Image 4: Black valve to adjust spray pattern.

### Maintenance Guide:

1. Once work has been completed, ensure the valve on the canister is left open, shut the gun off using the black valve on the back of the gun. 2. Turn the spray-gun off by turning the black valve clockwise until it is fully closed.
2. Unscrew the spray-tip and locking-nut from the spray-gun whilst securely holding the gun stem with grips or spanner.
3. Clean the spray-tip and the end of the spray-gun with solvent cleaner using a soft nylon brush to ensure that the aperture is clear (see image 6). This is essential. Failure to clean the spray-tip and the end of the spray gun may result in damage to the aperture and prevent the system from working.
4. Place the spray-tip and locking-nut in a container with a small amount of solvent cleaner until it is needed again (see image 7). Ensure the container is closed and airtight.
5. The canister will remain usable for one year after opening.

