

## INSTALLATION GUIDE – Glue Fixed

This Installation Guide, for glue fixed Mouldex® Façade System mouldings has been written for both builders and tradesmen who are using these products for the first time.

### SUBSTRATE PREPARATION

It is important to remember that glue fixed Mouldex® Façade System mouldings will reflect the dimensions, alignment and profile of the substrate to which it is being applied. Therefore, the substrate should be inspected thoroughly and prepared accordingly.

**Plumbness, Alignment and Irregularities:** Check that the substrate is plumb and the surface is free of irregularities such as steps, misalignment, protrusions and curvature. If any irregularities exceeds  $\pm 1.5\text{mm}$  within any 3.0m length, consider repairing the substrate.

**Surface Preparation:** Ensure that the substrate is sound and free of contaminants such as oil, dust, sealants and water. Remove any loose paint, or other protective coating and patch any holes or indentations that exceed 50mm in span.

**Openings and Perimeter Trims:** If opening and perimeter edge trims are specified e.g. architraves or flashings, these should be installed prior to the Mouldex® Façade System mouldings, as they will be the basis for measuring (refer step 3) and used to support the mouldings during installation.

**Expansion Joints:** Where expansion joints exist in the superstructure, these need to be replicated in the Mouldex® Façade System, both in extend and width. Use a backing rod (diameter to be at least 30% greater than the joint width) and ensure the sealant's depth to width ratio is less than 1:1.

### REQUIRED TOOLS AND MATERIALS

#### Tools:

The following tools are recommended for ease of installation:

- Drop/mitre saw with diamond blade
- Heat gun
- Tape measure, pencil etc.
- Small tool
- 10mm notched trowel
- 50mm paint brush
- Sponge
- Mixing bucket and mixer for adhesive
- Fixings (refer to installation step 5)
- Straight edge and spirit level

#### Adhesive:

Use a polymer modified adhesive (mixed in a 5:1 ratio of parts A to B), with the following components:

- **Part A** – Davco Powder Mastic (or similar)
- **Part B** – Mouldex® Liquid Bond

**Note:** PWS recommends *Davco Powder Mastic* as it has excellent adhesion, workability and sands back to match the moulding's coating.

#### Sealant:

For expansion joints, use a paintable, flexible, polyurethane joint sealant.

### STEP 1: Planning/Estimation

Plan to start at the bottom of a wall, providing temporary or permanent supports as the installation progresses.

- Allow for mitres on both internal and external corners.
- Allow 3% wastage for joining lengths on straight runs.

### STEP 2: Marking-out

Chalk line the whole job, including where horizontal joints will be required. This will highlight any layout issues you may have before it is too late.

### STEP 3: Measuring and Cutting

Assuming that the Mouldex® Façade System mouldings are installed vertically, there are two different measuring requirements for different installations. Always check the cut moulding against the wall before applying adhesive.

**Length:** Where the mouldings fit between fixed elements of the superstructure, subtract 3mm from the required length, to allow for adhesive.

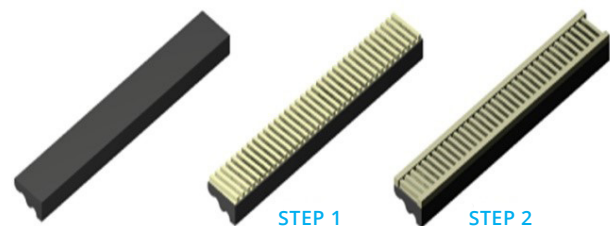
**Width:** Need to add 1.5mm for external corners and subtract 1.5mm for internal corners.

### STEP 4: Applying Adhesive

#### Back of Moulding

Firstly, using a 10mm notched trowel apply the adhesive 'across' the back of the moulding.

Then, using the flat edge of the notched trowel apply a line of adhesive to both edges. The line of adhesive should be approximately 15mm\*15mm.



#### Side Joins (Butt or Tongue & groove):

Using the flat edge of the notched trowel, apply a thin layer of adhesive to a single side.

### Application to the Substrate:

When applied to the wall, squeeze the mouldings together. A small, consistent amount of adhesive should ooze out. Clean off excess adhesive.

### Mitres and Straight Joins:

Remove approximately 3 to 5mm of foam from the exposed side or ends of the mouldings. Ideally this is done with a heat gun, but it can be scraped out with a small tool or similar. Fill sides and/or ends with adhesive, to the point that it is overflowing a little. Squeeze mouldings together and clean off excess adhesive.

**Note:** This method gives the join an integrated bond between both lengths that will protect it against cracking. Simply gluing the lengths together and patching over the top will not offer the same longevity.

For mouldings that finish with an exposed end, use the same method to remove foam, patch and finish.

### STEP 5: Installing

Once the adhesive has been applied to the moulding it is ready to be installed. Aim to place the moulding against the wall in one hit, enabling the 'suction' from the adhesive to hold the moulding in place.

#### Method 1: Temporary fixings underneath or beside the moulding

There are many different types of substrates that mouldings can be installed on. The supplier of the substrate will be able to guide in regards to the appropriate fixing. By using a small fixing underneath or beside the moulding, the subsequent hole can be hidden by the adhesive oozing out underneath. Unless mouldings are particularly thick, sliding is the only issue, not 'tipping' off the wall. Therefore, this method will cover most mouldings that are less than 100mm thick and up to 3m in height.

#### Method 2: Fixing through the moulding

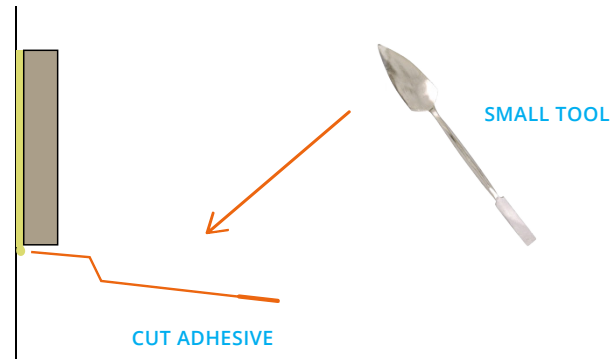
There is always a solution for any size moulding and for any substrate. These solutions could vary from:

- Running timber behind the moulding, in a groove cut in the back; then fixing from the side.
- Inserting pins, rods or screws through the front of the moulding into the substrate; then patching.

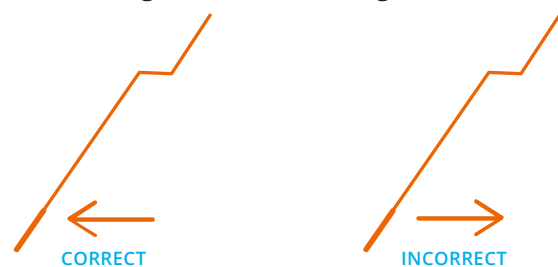
**Note:** To extend the life of the Mouldex® Façade System a metal flashing should be provided at the top of the mouldings if exposed to the weather.

### STEP 6: Cleaning off Adhesive

For cleaning off excess adhesive we recommend using a small tool, a 50mm paint brush (or sponge) and water. Use the small tool to 'cut' the excessive adhesive, allowing it to fall off the wall



Then using the flat end of the small tool, scrape 'forwards', cleaning off any remaining adhesive (refer to the diagram below for scraping 'forwards'). This is important because scraping in the wrong direction presses the adhesive into the wall. The correct method will leave the remaining adhesive 'lifted', allowing for easier cleaning.



For exposed edges use water and a 50mm brush (or sponge) to clean away all remaining adhesive. Do not leave a groove between the moulding and the wall, as this will show up when painted.

### STEP 7: Finishing

All joins need to be flushed or finished with sealant, to complete the Mouldex® Façade System installation.

**Note:** To ensure longevity of the product, it is essential to paint the finished Mouldex® installation within 7 days of installation. A sealer coat, plus 2 or 3 coats of membrane e.g. *Acrashield*, *Weathershield* or equivalent should be applied to all exposed surfaces.

For more advice, please contact PWS with the specifics of any job.

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