

TESTING OF STOCK SELF-ADHESIVE TAPES

Testing carried out - October 2019

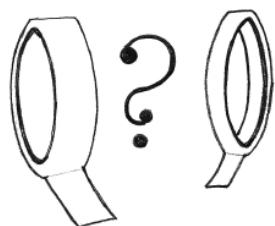


PURPOSE:	To test suitability of tapes for sticking our extruded rigid and flexible PVC profiles to a variety of different surfaces
METHOD:	Like for like testing allowing at least 12 hours setting time for tapes before attempting removal using reasonable force
ADHESIVE:	The adhesive used on each of the tapes is Acrylic
DESCRIPTION OF TEST:	A 150mm length of uPVC Angle was stuck to each of the surfaces listed

Surface / Tape used	13mm Foam	15mm Polyester	13mm High Mass	Comments
uPVC (dry)	Pass	Pass	Pass	
Other Plastic (Polycarbonate)	Pass	Pass	Pass	Foam Tape clearly visible, others unobtrusive
MDF	Pass	Pass	Pass	
Brick	Pass	Fail	Pass	
Painted Surface	Pass	Fail	Pass	The type of paint might make a difference. Test or consult paint supplier
Treated Timber (water based)	Pass	Fail	Pass	
Untreated Timber	Pass	Fail	Pass	
Ceramic Tile (smooth side)	Pass	Pass	Pass	
Ceramic Tile (reverse side)	Pass	Fail	Pass	
Concrete (fence post)	Pass	Fail	Pass	
Wallpaper	Pass	Pass	Pass	Will all tear wallpaper off wall
Glass	Pass	Pass	Pass	Foam Tape clearly visible, others unobtrusive
Metal (steel or aluminium)	Pass	Pass	Pass	
Cardboard	Pass	Pass	Pass	
Flexible PVC	Fail	Fail	Fail/Pass	1mm thick High Mass failed, 0.25mm thick passed due to less leverage
Friable (e.g. loose Plaster)	not tested	not tested	not tested	Tapes may bond to surface but as surface crumbles tapes detach. Use screws
uPVC (in wet conditions)	Fail	Fail	Fail	Use Stixall type product
uPVC (apply dry then soak)	Pass	Pass	Pass	Soaked after 12 hour set
10 Second Grab (Brick)	Pass	Fail	Pass	Used taped Angle to lift Brick and shake

Tubeway's uPVC Extrusions stick easily, cleanly and permanently to most surfaces, follow these 6 simple steps:

1) CHOOSE CAREFULLY



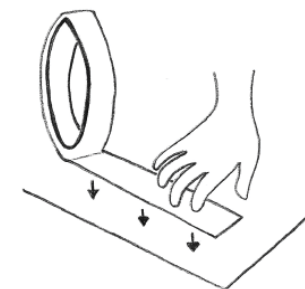
Pick the right tape for the surface and the right width for the weight. See our tape matrix for help with this.

2) PREPARE THE SURFACE



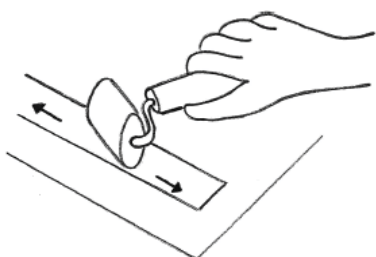
Wipe surfaces clean of dust and dirt. If in doubt, degrease using our Surface Preparation Wipes. (Isopropyl alcohol and water mix)

3) ADD TAPE TO EXTRUSION



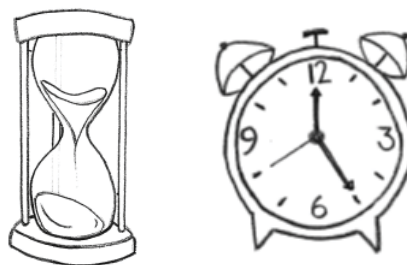
Apply tape as required, avoiding finger contact with adhesive or extrusion. Roll to remove air bubbles for the best long term adhesion.

4) STICK EXTRUSION IN PLACE



Remove tape liner, apply extrusion to substrate and apply firm pressure to gain maximum adhesion, especially on rough surfaces.

5) ALLOW TIME TO FULLY SET



Our tapes have grab strength but take 20 mins to reach 50% strength and 72 hours to fully set. Avoid excessive heat, cold or force until set

6) SIT BACK AND ADMIRE



Tape is clean, easy and quick to use, giving consistent results. Recover your energy in an appropriate manner and on to the next job!

Tubeway's range of self-adhesive tapes are selected for their ability to provide a lasting bond between our rigid and flexible PVC products and almost every type of surface. Here are answers to some common questions we are asked:

Question: Do temperature extremes affect tape?

Answer: Yes, most tapes need +10 degrees C for the chemical reaction needed to fully bond; any colder can impede this. Excessive heat can melt the adhesive or dry it out until set. Once the adhesive sets it can withstand colder and hotter temperatures.

Question: Can tapes be applied in wet conditions?

Answer: No, water or moisture acts as a barrier between the adhesive and the surface you are sticking to. Damp or wet conditions will prevent bonding.

Question: Once applied, will tape withstand moisture?

Answer: Yes, once the adhesive has set there should be no problem.

Question: How do I know if I've bought the right tape before I commit to using it?

Answer: Test the tape, you will quickly discover if it meets your expectations and you will get a feel for how it will behave on installation.

Question: Why would I use tape over a liquid sealant or glue?

Answer: Less time, mess and waste. Easier to achieve neat and consistent results.

Question: How long does it take tape to fully bond?

Answer: It depends on the temperature, as colder conditions make it a longer process, but allowing 72 hours is good practice, if you can. Avoid undue stress, temperature extremes and contaminants during this period for best results.

Question: Does tape ever fail?

Answer: Yes, although the most common reasons for failing are picking the wrong tape or ignoring guidelines for use and installation. Installing close to a heat source will eventually dry out the adhesive, putting tape in direct sunlight can cause a foam substrate to deteriorate over time.

Question: Is tape suitable for use on wallpaper or paint?

Answer: Yes, tape can deal with both of these, but bear in mind that undue stress could result in the tape coming away with a layer of paper or paint, as these will fail before the bond.

Question: What are tape liners?

Answer: The liner is the backing on the adhesive tape that is peeled away immediately before use. It is coloured to help identify the type of tape; it protects the adhesive from air and contaminants and will release easily during use of the tape.

Question: Can all surfaces be stuck to with tape?

Answer: No, although most allow easy bonding, certain "low surface energy" materials are more difficult and require specialist adhesive. The most common are polypropylene, polyethylene and silicone.

Question: Will tape grip before it fully sets?

Answer: Yes, our tapes have an instant grab, so be careful when applying. They will reach 50% strength in approx. 20 minutes.

Question: What tape is best for a textured surface?

Answer: Foam tape, which has a soft core, will mould itself to a porous or uneven surface and give much better adhesion than a thinner or solid tape.

Question: What else prevents tape bonding properly?

Answer: Anything that creates a barrier between adhesive and surface e.g. grease and dirt. This could be on the surface itself or be transferred from fingers when handling the tape.

Question: How should tape be stored?

Answer: Ideally a cool dry place, away from natural light.