

Domus duct systems are primarily of a simple and easy to install push-fit design to suit low pressure ventilation systems and to provide an airtight seal that reduces air leakage, which then results in improved performance.



Push-fit solutions are suitable for the majority of traditional kitchen (e.g. on the top of wall units) and bathroom installations using Domus duct systems. However, increasingly there is a requirement to either permanently or semi-permanently seal joints in certain instances.

The greater need for possible sealing of joints has come about due to:

- Increased number of duct systems being installed in ceiling voids and roof spaces
- Increased number of systems being boxed in and inaccessible
- Increased power of extraction units putting greater pressure on the ducting leading to increased risk of air leakage
- Better sealed and insulated houses increasing condensation and moisture levels
- Increased understanding of the importance and benefits of correct ventilation

Sealing Plastic Duct Systems

Product Information Sheet

When should a duct joint be sealed?

- When a duct system carries high levels of moist air, it is recommended that a permanent seal is applied as excess condensation could occur and bleed around joints by capillary action, leading to staining on adjacent surfaces. This is particularly the case if the system is installed adjacent to a porous surface, as the leakage could create problems such as damp surface ceiling patches
- Sealing of joints is recommended for installations where performance levels are critical and any potential for air leakage needs to be eliminated
- If the duct system is boxed in or completely inaccessible for maintenance, it is recommended that all joints are secured, for increased peace of mind
- Sometimes sealing simply secures a connection or maintains the integrity of the system configuration
- In applications where it is necessary to regularly dismantle or remove the ducting for maintenance cleaning purposes NO permanent sealing measures should be applied

Deciding on the most appropriate method of duct sealing

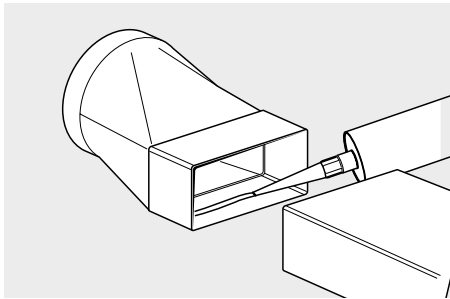
Sealing rigid ducting systems

Solution: Domus Plastic Ducting Sealant
Code: DDSEAL
Specification: 310 ml cartridge, white.
 Working temp. up to 75°C



If a round or rectangular rigid duct system needs to be permanently sealed, the recommended solution would be to use **NEW** Domus Plastic Ducting Sealant. It has been designed specifically to provide a professional airtight and secure seal between plastic ventilation ducts and fittings.

It has a high quality acrylic polymer base providing a low shrinkage flexible seal. Importantly, it is solvent-free and will not attack adjacent sensitive surfaces.



Domus Plastic Ducting Sealant incorporates non-hazardous, mould-resistant fungicides and also being a water-based formulation, any excess can be easily wiped away with a sponge and warm water.

In some situations it may be prudent to provide greater mechanical strength to a joint by using a combination of Domus Plastic Ducting Sealant and Domus PVC Ducting Sealing Tape (see later section).

Sealing insulated ducting systems

Solution: Domus Aluminium Duct Sealing Tape
Code: 50TP45
Specification: 50mm width, 45m length
 Conforms to Class O BS476 Part 6 & 7 1987. Working temp. up to 120°C



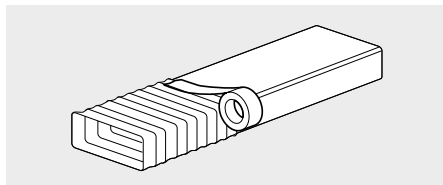
To ensure a suitable seal on a Domus ThermaPipe or Domus Insulated Hose connection, Domus Aluminium Duct Sealing Tape should be used to maintain a seamless surface and joint in order to retain the thermal integrity of the duct system.

Sealing PVC flexible hoses or semi-permanent rigid duct seals

Solution: Domus PVC Duct Sealing Tape
Code: 123 (33m), 123-4 (4.6m), 40123 (4.6m pre-packed)
Specification: 50mm wide, white, wipe-clean



When a semi-permanent seal is required or it is not practical to use a sealant, such as when making a rectangular flexible hose joint, Domus PVC Duct Sealing Tape should be applied.



It has been designed to offer both good mechanical strength and a clean, white, tidy finish.

Sealing Domus FireBrake ducting systems

Solution: Domus FireBrake Acoustic Intumescent Mastic
Code: MAS87
Specification: 310ml cartridge, white.
 4 hour fire-rating. Tested to BS476: Part 20



In order to effectively seal a Domus intumescent FireBrake into a fire partition wall, Domus FireBrake Acoustic Intumescent Mastic must be used.

Gaps in the wall around Domus FireBrake of up to 12mm can be made good with Domus FireBrake Acoustic Intumescent Mastic, to provide both a complete smoke seal and a reduction in sound transmission through the duct system.



Further Information

If in doubt about your method of sealing, please contact our technical advice department.

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Ref 3K 0708 CD1153