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Network Technical Data Sheet – Avifix

Avifix is a high-quality single component joint sealant with high adhesive strength and initial tack.

Base	MS Polymer®
Consistency	Paste
Curing System	Moisture Cure
Skin formation (*)(20°C/65%RV)	Circa 5 min
Curing Rate (*)(20°C/65%RV)	Circa 3mm/24hr
Hardness (DIN53505)	60 +/- 5 Shore A
Specific Gravity (Din 53479)	1.47 g/ml
Maximum Deformation	+/-20%
Temperature resistance (fully cured)	-40°C to +90°C
Elastic Recovery (ISO 7389)	>75%
Elasticity modulus 100% (DIN 53504)	2.30 N/mm²
Tear Strength (DIN 53504)	3.50 N/mm²
Elongation at break (DIN 53504)	400%

(*) these values may vary depending on environmental factors such as temperature, moisture and type of substrate

Characteristics

- High initial tack
- Fast curing, quick build-up of end strength, high sheer strength after full cure (no primer)
- Easy to apply and easy to tool and finish
- Remains elastic after curing
- No odour
- Does not contain isocyanates, silicones nor solvents
- Paintable with all water based paints
- Good colour stability, weather and UV stability resistance

Applications

- Bonding Avipoint or Avishock to variety of building substrates
- Bonding Avipoint Window Clips to window frames
- Bonding Stick-on Bases to a variety of building substrates

Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Packaging

290ml cartridge

Colour Options

Grey – ADH006
White – ADH010

Resistance to Chemical Agents

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis.
Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Surfaces
Type: all usual building surfaces, several metals and plastics (except PP, PE, PTFE, silicones and bituminous substrates). Bonding plastics like PMMA or polycarbonate in stress loaded applications can give rise to stress cracking and crazing of the polycarbonate. The use of Avifix is not recommended in these applications.
We recommend preliminary tests prior to installation.
Nature: clean, dry, free of dust and grease
Preparation: for applications on porous surfaces apply Primer 150; we recommend the use f surface activator on non-porous materials, especially metals and plastics. Surface Activator will allow a stronger bond to Avipoint.
A preliminary compatibility test is recommended for all substrates.

Application
Method: caulking gun
Application temperature: +5°C to +35°C
Preparation: ensure all substrates are clean, dry and free of dust and grease. For applications on porous surfaces apply Primer 150; the use of surface activator is recommended on non-porous materials, especially metals and plastics. Treatment with Surface Activator will allow a stronger bond to Avipoint bases and is vital when bonding AviClips for Windows or Stick-on Bases in place.

Note: Full bond strength can take up to a week to be achieved depending on the porosity of the substrate, the ambient temperature and the relative humidity. A non-porous substrate such as metal or a gloss painted surface, along with dry and cold conditions will take the longest time to cure.

Health & Safety Recommendations
Apply the usual industrial hygiene. Consult the label and the MSDS for more information.

Remarks
Avifix may be painted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. The drying time of alkyd resin paints may increase.
Avifix may be applied to a wide variety of substrates. Due to the fact that specific substrates, such as plastics, polycarbonate etc may differ from manufacturer to manufacturer we recommend a preliminary compatibility test.
While producing plastics, very often releasing agents or processing aids are used. These should be removed prior to bonding. For optimum adhesion, the use of Surface activator is recommended.
This product cannot be used as a glazing sealant.
Avifix can be used for bonding natural stone, but it cannot be used as a joint sealant on this type of surface. Avifix can therefore only be used on the bottom of natural stone tiles.
When applying, make sure not to spill any sealant on the surface of materials.