

Adflex

One-component sealant/adhesive

Technical product data:

Chemical base	one-part polyurethane
Colour	white, grey, black, brown
Density (DIN 53479) (uncured)	1.15 to 1.17 kg/l approx. depending on colour
Stability (non-sag properties)	Good
Cure mechanism	Moisture-curing
Tack-free time*	20 minutes approx.
Rate of cure*	4 mm per 24 hrs. (see diagram)
Shrinkage (ISO 10563)	<10% approx.
Shore A hardness (ISO 868)	50 approx.
Tensile strength (DIN 53504)	2.4 N/mm ²
Elongation at break (DIN 53504)	>700% approx.
Slump (ISO 7390)	<3mm
E modulus (DIN 53504)	1.08 MPa
Service temperature	-30°C to +80°C
Application temperature	+5 to +30°C
Shelf life (stored below 25°C)	12 months

* = at 23°C and 50% relative humidity

Description:

Adflex is a high quality, multipurpose non-sag one-part polyurethane sealant that cures on exposure to atmospheric moisture to form a durable elastomer. Tried and tested in service for many years, Adflex is manufactured in accordance with the ISO 9001/14001 quality assurance system.

Areas of application:

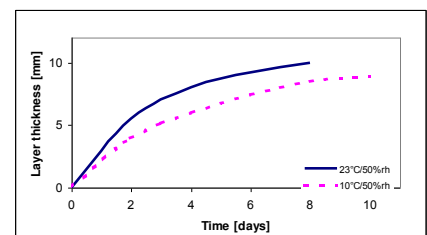
Adflex bonds well to a wide variety of substrates and is suitable for making permanent elastic seals of high adhesive strength. Suitable substrate materials are timber, metals, metal primers and paint coatings (two-part systems), ceramic materials and plastics. Seek manufacturer's advice before using on transparent and pigmented materials that are prone to stress cracking.

Product benefits:

- one-part formulation
- elastic
- low odour
- non-corrosive
- can be overpainted
- Resistant to weathering and ageing
- can be sanded
- bonds well to a wide variety of substrates

Cure mechanism:

Adflex cures by reaction with atmospheric moisture. At low



temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram).

Chemical resistance:

Adflex is resistant to fresh water, seawater, limewater, sewage effluent, diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of application:

Surface preparation: The faces of the joint must be clean, dry and free from all traces of grease, oil and dust. The adhesion of the sealant can be improved by wiping the joint with an approved cleaning and activating agent and applying an appropriate primer

Application: Pierce aluminium membrane in nozzle thread. Cut off the tip of the nozzle to suit joint width and gun the sealant into the joint with a suitable hand-operated or compressed-air gun, taking care to avoid air entrapment. Once opened, packs should be used up within a relatively short space of time.

Do not apply at temperatures below 5°C or above 30°C. The optimum temperature for substrate and sealant is between 15°C and 25°C.

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Tooling and finishing: Tooling and finishing must be carried out within the tack-free time of the sealant. Finishing agents or tooling lubricants must be tested for suitability / compatibility.

Overpainting: Adamseal can be overpainted when tack-free. The paint must be tested for compatibility by carrying out preliminary trials. Baked enamels should not be applied to Adamseal until the sealant has attained full cure. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Removal:

Uncured Adflex may be removed from tools and equipment with a suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin should be washed immediately using a suitable industrial hand cleanser and water. Do not use solvents!

Further information:

Copies of the following publications are available on request:

– Safety Data Sheet

Packaging:

300ml Cartridges
600ml foil bags
200 litre drums