

# ATECHFLEX<sup>®</sup> POLY

ADVANCED UNIVERSAL POLYURETHANE SEALANT



**ATECHFLEX<sup>®</sup> POLY** is a one-component polyurethane adhesive and sealing compound of permanent elasticity, moisture curing type.

## APPLICATION AREA

### 1) AS AN ELASTIC ADHESIVE FOR:

- Brick, block and concrete expansion.
- Acoustic ceiling tiles.
- Floor moldings and door sills.
- Light weight construction materials.
- Wood or metal and door frames.
- Roof tiles.

### 2) AS AN ELASTIC JOINT SEALER FOR:

- Air ducts and high vacuum systems.
- Containers, tanks, and silos.
- Gaskets in openings in walls or floors for ducts, piling, etc.
- Reservoirs or water retaining structures.
- Aluminum fabrication.
- Bolted lap joints.
- Containers, tanks and silos.
- Gaskets in openings in walls or floors for ducts, piling etc.

## ADVANTAGES

- Excellent adhesion on all cement-based materials, brick, glass, ceramics, metals, wood, epoxy, polyester and acrylic resin.
- Fast cure rate.
- Good weathering and water resistance.
- Non-corrosive.
- Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended).
- High durability.
- Low temperature resistance, in the range of + 5°C to + 40°C, can maintain good flexibility and adhesion.

## PACKAGING

600ml sausage, 12 pieces / carton

## STORAGE

### SHELF LIFE:

12 months in original packaging, since the production date.

### RECOMMENDED STORING TEMPERATURE:

10°C~25°C (not >45°C).



# PRODUCT DATA SHEET: SEALANTS: ATECHFLEX® POLY

Technical Properties	
Indicator	Parameter
Color	Grey, White, Black, Beige, Redwood, Sandstone
Outer Appearance	Paste
Density, g/cm <sup>3</sup>	1.30
Hardness, Shore A	App. 40
Surface dry time, min	40-60
Curing speed, mm/24h	3mm/24h
Elongation Tensile Strength, Mpa	1.8Mpa
Elongation at Break, %	500
Tear Strength App.	6N/mm
Shrinkage Rate	3%
Temperature Tolerance	-40 ~ +90°C
Application Temperature	+5 ~ +40°C
Working Temperature	-40°C ~ +90°C
Glass-Transition Temperature	-45°C

\*Test under situation: 23°C×50%RH×28days

## APPLICATION TIPS

- The bonded surface must be clean, dry and free of putty before bonding.
- Substrates that may seep out of oil are not suitable for direct application of sealant.
- For rusted or corroded metal surfaces (such as aluminum oxide, copper, iron oxide rust surface), in order to ensure the bonding effect, the rust on the surface layer needs to be worn off before coating.
- Due to the construction environment, construction methods, and material differences, pre-testing is required before use to ensure adhesion performance.
- The optimal coating temperature is +5 ~ +40°C. When the temperature is low, the extrusion resistance increases, warm up the adhesive before use.

## Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by **ATECH**® either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not **ATECH**® are responsible for carrying out procedures appropriate to a specific application.

## Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

## Safety Precautions

These products may cause allergic reactions through skin contact, goggles, protective gloves and overalls must be worn. Ensure that there is adequate ventilation and avoid breathing the vapour.

## Exclusion Clause

1. The information contained in this data sheet is based on many years experience and is correct to the best of our knowledge. **ATECH**® will be under no liability whatsoever whether in:
  - a) Contract or tort (including, without limitation, negligence)
  - b) Breach of statute
  - c) Any other legal or equitable obligation other than the quality of the product at the time of despatch.
2. Any queries about specification use or application should be directed to our technical service department immediately.
3. This exclusion clause does not operate to exclude any warranty that by law may not be excluded.



Atech Products Pty Ltd  
 PO Box 3119 Burnley North VIC 3121  
 T . +61 3 9028 4265 E. sales@atechproducts.com.au  
[atechproducts.com.au](http://atechproducts.com.au)