

## Technical Data Sheet

# ARO-SEAL® 1101 HYBRID POLYMER ADHESIVE



**ARO-SEAL® 1101 IS A ONE COMPONENT, SOLVENT AND WATER FREE, ELASTIC CONSTRUCTION ADHESIVE BASED ON HYBRID POLYMERS.**

**ARO-SEAL® 1101 CAN BE USED FOR BONDING AND SEALING A WIDE RANGE OF SUBSTRATES IN BOTH STRUCTURAL AND NON-STRUCTURAL APPLICATIONS.**

Aro-Seal® is suitable for use in low-movement joints in construction, automotive, marine and aerospace industries where a tough flexible rubber is required. Joints may accommodate movement up to 25%. Aro-Seal® 1101 is used in composite door manufacturing applications and meets the requirements of PAS23/24 certification for "Secured by Design" door systems

### BENEFITS

- High bond strength on nearly all surfaces
- Excellent adhesion to porous surfaces and PVC
- No bubble formation within sealant
- Good colour stability
- Good resistance to UV
- Acid, isocyanate and solvent free
- Resistance to most chemicals
- Overpaintable with all water based paints
- Meets requirements of PAS23/24 in conjunction with Secured By Design for door manufacturing

### AVAILABLE COLOURS

Black      White      Clear

### TECHNICAL DATA

Brookfield viscosity:	Paste
Specific gravity:	1.67 g/ml
Skin formation:	20-35 minutes (20°C and 65% RH)
Curing rate:	2 - 3mm per 24 hours (20°C and 65% RH)
Hardness:	40 +/- 5 Shore A
Temperature resistance:	-40°C to +90°C
Elongation at break (DIN53504):	750%
Elasticity modulus (DIN53504):	0.75N/mm <sup>2</sup>
Elasticity recovery (ISO 7389):	>75%
Breaking strength (DIN53504):	1.8N/mm <sup>2</sup>

### AVAILABLE SIZES

Cartridge      290ml

## PREPARATION AND APPLICATION

Ensure that the surfaces to be bonded are smooth, clean and free from dust or other deposits. Recommended application temperature is within the range of 1°C to 30°C

Insert the cartridge into a suitable applicator, e.g. a skeleton gun, or pneumatic applicator. Slit the cap and screw on the nozzle. If required, slit the nozzle to increase the size of the orifice. Dispense the bead of adhesive on one side of the substrates to be bonded. Bring substrates together and apply pressure to ensure full contact.

For porous surfaces Aro-Seal® 1139 Primer may be used to improve the cure, where preliminary adhesion tests indicate that it would be advisable. Likewise, where necessary, Aro-Seal® Surface Activator may be used on non-porous surfaces.

## HANDLING AND STORAGE

Aro-Seal® 1101 should be stored in the original cartridges in a cool, dry place, at a temperature range of between 5°C and 25°C. In these conditions it has a storage life of at least 12 months.

## LIMITATIONS

Aro-Seal® 1101 has good chemical resistance against water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis, but poor chemical resistance against aromatic solvents, concentrated acids and chlorinated hydrogens. before final application.

**DISCLAIMER:** Due to the variation in materials likely to be handled by prospective users of this product, together with differences in production techniques and ultimate performance required, it is important that this product is thoroughly evaluated under production and end use conditions before being commercially adopted. Such an evaluation should incorporate an ageing test and this test should be repeated if the substrates on which the this product is used are changed in any way or are purchased from a different source. During the evaluation and testing of the product, it is the purchasers/end user's responsibility to carry out appropriate actions for the protection of the environment, the health and safety of its employees and purchasers of its products. No employee of Ureka Global Ltd has any authority to waive or change the forgoing provisions. The above recommendations are made in good faith for the guidance of users and are without liability. Any queries should be made in writing to the head office of Ureka Global Ltd.

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