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, isocynate 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 (20ºC and 65% RH)
Curing rate:	2 - 3mm per 24 hours (20ºC and 65% RH)
Hardness:	40 +/- 5 Shore A
Temperature resistance:	-40ºC to +90ºC
Elongation at break (DIN53504):	750%
Elasticity modulus (DIN53504):	0.75N/mm²
Elasticity recovery (ISO 7389):	>75%
Breaking strength (DIN53504):	1.8N/mm²

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.

Revision date: January 2023