

ALLROUNDER

MS Polymer Sealant

ICCONS™

Serious Connections



- *Interior*
- *Exterior*
- *Paintable*
- *Mildew Resistant*
- *Waterproof*
- *Suitable for Wet Surfaces*
- *Exceptional Adhesion*
- *High Tack (No bracing)*
- *Flexible (permanent elasticity)*
- *Solvent Free*
- *UV Resistance*
- *Abrasion Resistant*

ICCONS™ ALLROUNDER™ is a true all rounder that bonds seals and caulks, this makes it the must have universal sealer/adhesive for all trades persons tool kits.

ALLROUNDER™ is a single component, high quality, MS polymer adhesive sealant with a high initial tack. Suitable for both interior and exterior bonding, sealing & caulking applications, **ALLROUNDER™** remains permanently flexible, mildew resistant, UV resistant, solvent free and can be applied on wet surfaces.

ALLROUNDER™ has an excellent adhesion on almost all substrates. And may be painted with most types of water based paints used in the industry (ICCONS suggest a compatibility test before application, The drying time of alkyd resin based paints may increase).

ALLROUNDER™ has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Plastics that were tested include: polystyrene, polycarbonate (Makrolon®), PVC, polyamide, glasfiber reinforced epoxy and polyester (GRP).

Characteristics:

- High performing properties.
- Easy tooling and finishing.
- Can be painted with water based systems.
- Superb initial tack, high sheer strength after full cure & fast build-up of end strength,
- Does not contain solvent, silicone, isocyanates.
- No bubble forming within sealant (in high temperature and humidity applications).
- Flexible & elastic.
- Good colour stability, weather and UV resistance.
- High firmness with tremendous bond strength.
- No odour.



Suggested applications:

Building & Maintenance -

Concrete joints & penetrations, Signage, electrical fixtures, tiling, doorways, cold rooms, window trim & sills etc.

Plumbing - Sinks, Showers, Roof, gutters etc.

HVAC - Heating & cooling. Pipes ductwork etc.

Marine - boat maintenance.

Date:

6th Dec. 2013

Revision: 1



Adhesive

DATA SHEET

Suggested specification

ICCONS - ALLROUNDER
Part # - ARW300
ARG300
ARB300

To be installed in accordance with ICCONS Installation Instructions.

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2007.1



Technical properties

Base	MS Polymer
Consistency	Paste
Curing System	Moisture Cure
Skin Formation (*) (20°C/65% R.V.)	Ca. 5 min.
Curing Rate (*) (20°C/65% R.V.)	3 mm/24h
Hardness	65 ± 5 Shore A
Specific Gravity	1,47 g/ml
Elastic recovery	> 75 %
Maximum Deformation	± 20 %
Temperature Resistance (fully cured)	-40°C to +90°C
Elasticity Modulus 100 % (DIN 53504)	2.3 N/mm ²
Tear Strength (DIN 53504)	3,5 N/mm ²
Elongation at break (DIN 53504)	400 %
Shear Strength	> 2 N/mm ²
Substrate	AlMgSi1
Thickness	2 mm
Shear test velocity	10 mm/min

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

Joint Dimensions:

Bonding:

- Minimum thickness 1-2mm
- Maximum layer 10mm

Sealing:

- Minimum width 5mm
- Maximum width 30mm
- Minimum depth 5mm

ICCONS recommends at least a 2mm bonding layer to achieve a bond with maximum elastic properties.

Resistance to chemical agents:

In its cured state ALLROUNDER has good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

Application Method:

Manual or pneumatic caulking gun.

Application temperature:

+5°C until +30°C.

Bond Strength

Metals	PSI		MPa		Plastics	PSI		MPa		Timber	PSI		MPa		Concrete & Masonry	PSI		MPa	
	PSI	MPa	PSI	MPa		PSI	MPa	PSI	MPa		PSI	MPa	PSI	MPa					
Steel	127	0.87	Polystyrene	112	0.77	Pine	125	0.86	Concrete	128	0.88								
Galvanised Steel	116	0.80	PVC	76	0.52	Cedar	125	0.86	Block	112	0.77								
Aluminium	109	0.75	PA6	123	0.85	Beech	134	0.92	Hollow Brick	112	0.77								
Brass	81	0.56	Makralon (PC)	128	0.88	Oak	131	0.90	Brick	112	0.77								
Copper	144	0.99	PMMA	95	0.66														
			ABS	119	0.82														
			Epoxy (Typ)	118	0.81														

Surface Preparation:

Surfaces must be clean and dry, and free from oil, grease and dust.

Cleaning:

Clean with a white Spirit or Surface Cleaner immediately after application and before curing.

Tooling:

Soapy solution before skin formation. Repair with: Allrounder.

Health- and Safety

Recommendation:

Apply the usual industrial hygiene Refer to the MSDS For more information

Shelf life and storage:

12 months from date of manufacturing in unopened packaging stored in a cool and dry place at recommended temperatures between +5°C and +25°.

Packaging:

Colour: White, Grey, Black
Cartridge volume: 290 mL

Remarks:

- Allrounder may be painted with most types of lacquer used in industrial applications, however due to the selection of paints and varnishes available, ICCONS strongly suggest a compatibility test prior application. The drying time of alkyd resin based paints may increase.
- Do not use as a glazing sealant.
- Allrounder can be applied to a wide variety of substrates. Substrates such as plastics, polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Suitable for bonding of natural stone, but not recommended as a sealant on this material.

Leed Regulation:

Conforms to the requirements of LEED - low emitting materials: Adhesives and Sealants SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: low emitting materials - Adhesives & Sealants concerning the VOC content.

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

