



RESIN GUIDE

Why we only use 2-part OEM Grade Resin

Resin badges can be made using a number of technologies, some options are much cheaper than others and you will get what you pay for unfortunately. Two key considerations when making your decisions should be:

ADHESIVE TYPE:

Different surfaces require different adhesives. Make sure the base stock specified has the appropriate adhesive for your products. Sun Industries has a wealth of knowledge in this area and can provide advice and samples for testing.

TYPE OF RESIN:

There are two types of resin that can be applied to your badges. Two Part OEM Grade Resins (used by Sun Industries) and Single Part UV Cured Resins. There is a large difference in both the price and quality of these resins and it is important that you are selecting correctly for your application. Use the table below as a guide.

Consideration	2 Part OEM Resin	Single Part UV Resin
Outdoor Resistance	✓ Very Good: No yellowing, minimal gloss change after 2 years.	✗ Not Good: UV Resin continues to cure. Yellows, hardens and cracks in less than 3 months.
OEM Automotive Grade Compatability	✓ Yes: Able to meet all OEM Grade Requirements.	✗ No: Not suitable for OEM Grade Requirements.
Size of Resin Badge	✓ Any Size: Small to large sizes with no difference to quality.	— Small Only: Larger sizes will curve upwards as the UV resin continues to cure.
Bonding of Resin to Substrate / Inks	✓ Homogenous polymerisation: Creates excellent bond with no shrinkage.	— Only Good with some: UV resin shrinks slightly on curing and can cause problems with bonding.
Hardness	✓ Stable Properties: Resin has excellent elasticity and can reshape if damaged.	✗ Continually hardening, especially outdoors: Will eventually crack.
Ability to Form Complex Shapes	✓ Very Good: Natural viscosity allows for complex shapes.	✓ Ok: Will spread to some areas but can be too viscous to flow easily.
Promotional / Short Life Products	✓ Good: Able to be produced in short runs.	✓ Good: Able to be produced in short runs if low product life is required.
ROHS / Directive Compliant	✓ Yes: Approved for use with Microsoft, Sony, Motorola, NEC, Nokia, Volvo.	— Check with supplier.

UV cured badges are ok for cheap promotional or short life products. However, if your requirements are longer term or for outdoor use then 2 part OEM resins are the best option.

For further information, samples or technical data sheets please contact either myself or John Stoneham on **1800 999 418**.

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