



AU521C – S3

UV-CURABLE GASKET

KEY BENEFITS

- High elongation and flexibility
- Excellent thixotropy
- Excellent toughness

DESCRIPTION

AU521C-S3 is a one component, solvent free, light-cure gasket material based on urethane acrylate. It has excellent flexibility and toughness to apply as water/dustproof gasket. This product is supplied in paste form and can be dispensed by semi- or fully automated systems such as air, mechanical and jet valve. Its ability to cure within seconds after light exposure allows faster processing, higher productivity, lower material cost resulting overall in lower production costs.

APPLICATIONS

AU521C-S3 has been developed for Cured in-Place gasket (CIPG) applications such as electrical enclosures, electronic casing to provide airtight, watertight and dustproof systems.

FEATURES

- High Elongation
- Elastic within temperatures from -40°C to 100°C
- Pass IPX7
- Low electrical conductivity
- Excellent adhesion on plastics and metals.

METHOD OF USE

Before use, AU521C-S3 should be kept at room temperature for at least one day. AU521C-S3 can be used with various kinds of dispenser such as air, mechanical and jet valve. It should be applied at temperatures from 20°C to 30°C. High pressure mercury lamp, metal halide lamp with UV-A wave irradiation dose from 4000 to 6000 mJ/cm² or more is recommended. UV-LED lamp with wavelength below 365nm can also be used for curing. After curing, it should be compressed at 20% ~ 40% compression ratio for reliable waterproof performance. Substrate should be clean and free of grease, oil or other residues prior to dispensing to ensure optimum adhesion.

PACKAGING

- 50 g syringe

STORAGE

AU521C-S3 can be stored for 4 months in the original, unopened packaging in a dry place at temperatures between +0°C and +25°C. Product should be protected from light.

CHARACTERISTICS – UNCURED MATERIAL

Appearance		Blue paste
Chemical type		Acrylated urethane
Density at 23°C	[g/cm ³]	1.2
Viscosity at 25°C	[mPa.s]	1,200,000 @0.5rpm 200,000 @5rpm
Thixotropic index Vis.@0.5rpm/vis.@5rpm	[-]	6.0

CHARACTERISTICS – CURED MATERIAL

Hardness at 23°C	[Shore A] [Shore 00]	20 80
Elongation at Break at 23°C	[%]	2,100
Tensile Strength at 23°C	[MPa]	5.61
Compression set 25% comp., 70°C, 22h 50% comp., 70°C, 22h	[%]	18 19
Water absorption	[%]	6.0
Thermal durability 85°C 95%RH	[Hours]	200
Temperature use range	[°C]	-40°C to 100°C

PRECAUTIONS

Proper PPEs should be used during handling. A local exhaust system is recommended at the point of curing to dissipate any heat and vapors formed during the curing process.

Refer to Material Safety Data Sheet before using and handling this product for more information.



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