



Conformal Coating LC12

Description:

This product is a two-component solvent free silicone coatings. For convenience storage, it's designed as two-component, adding B component crosslinking agent, it can be stored for seven days when sealed without water.

It does not contain solvents, environmental friendly, good adhesion, high strength, high hardness, resistance to cold and hot shock, resistance to high and low temperature, moisture-proof, radiation protection, insulation, transparent flame retardant and other characteristics. It's suitable for hybrid integrated circuit boards, automotive electronic control board, aviation instrument panel, flexible circuit board, the computer control panel, semiconductor crystal line protection; In LED module display sealing, due to high refractive index, it can prevent lamp bead color temperature drift well and will not affect the lamp lumens of pearl.

LC12-1: Contrast Light Moisture Curing Drape Coatings, the product can meet 94V0 flame retardant grade, hardness is 25HD.

LC12-2: Contrast Light Moisture Curing Drape Coatings, the product can meet 94V1 flame retardant grade, hardness is 35HD, viscosity is lower.

Instructions

1. Mixing in accordance with the A: B = 100:2, stirring evenly, no need to add any thinner or solvent, and then spraying, dipping, brushing; After mixing, it must be sealed to prevent moisture to enter, it will be good to fill nitrogen to replace air, then it can be placed 7 days, viscosity will have no changes.

2.

LC12-1: After 130°C heat drying tunnel in 2 to 3 minutes, let the surface is completely dry. In order to conveniently into next working procedure, placing 72 hours so that it cures at room temperature.

LC12-2: Cured by UV light source. After UV light source is cured, the surface is slightly sticky. It can also be baked at 130 degrees for 2-3 minutes, so that the surface is completely dry and easy to enter the next process, and then placed at room temperature for 72 hours until it's fully cured.

3.

LC12-1: Without heat curing, the gel time is longer, which ensures that the gun nozzle will not be blocked during spraying and other constructions.

LC12-2: In the absence of light curing and heat curing, the gel time is longer, which ensures that the gun nozzle will not be blocked during spraying and other constructions.

4. Storage: A and B components need to be sealed and stored away from light.

Technical Data Sheet



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Typical Technical Properties:

Item	LC12-1	LC12-2
Appearance:	translucent liquid with fluorescent indicator	translucent liquid with fluorescent indicator
Solid Content:	100%	100%
Viscosity mp.s:	480	400
Hardness:	25HD	35HD
Adhesion:	Level 1	Level 1
Tensile Strength:	5.5Mpa	5.5Mpa
Flame Retardant:	94V0	94V1
Refractive Index:	1.53	1.53
Absorb UV Wavelengths	-	365-385
UV Energy:	-	200-400mj/cm ² the paint is set, the surface is slightly sticky
Moisture Absorption Surface Dry Time:	2 hours, 72 hours to dry	2 hours, 72 hours to dry
Temperature Resistance:	-60~280°C	-60~280°C
Impact Strength:	1.27-1.32 Kj/m ²	1.27-1.32 Kj/m ²
Volume Resistance:	1*10 ¹⁵ Ω·cm	1*10 ¹⁵ Ω·cm
Dielectric Constant:	3.0 @60Hz	3.0 @60Hz
Dielectric Strength:	21 kv/mm	21 kv/mm
Dissipation Factor:	5*10 ⁻³ @60hz	5*10 ⁻³ @60hz
Softening Point:	145-160°C	145-160°C
Flexibility Bending 1/8m:	no cracks	no cracks
Moisture Resistance:	85°C. 85 humidity, no change in hardness or shedding for 30 days	85°C .85 humidity, no change in hardness or shedding for 30 days
Water Drop Angle:	106 degree, water drops fall naturally	106 degree, water drops fall naturally
Corrosion Resistance:	weak acid, weak base, salt water, 30% alcohol, 30% methyl ethyl ketone, disinfectant, no corrosion	weak acid, weak base, salt water, 30% alcohol, 30% methyl ethyl ketone, disinfectant, no corrosion

Package &Storage:

In 200kg drum.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance. Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

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