



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号
日月科技园

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安徽艾约塔硅油有限公司

IOTA CORPORATION LTD.

Sunmoon industry park, 985 Xingzhong Road,
Bengbu, China 233000

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Sealant IOTA SLT 3E SIV

Description:

IOTA SLT 3E SIV is a one-component silicone sealant, acidic curing, which when exposed to atmospheric humidity, forms a flexible and durable elastomeric seal which possesses excellent resistance to severe weathering conditions.

Examples of applications:

IOTA SLT 3E SIV is a general purpose silicone sealant which offers good performance on many different applications where weather tightness is required:

- Caulking doors and windows;
- Shop windows, display cases, panels and signs;
- Plumbing, drains, guttering;
- HVAC ducting;
- Sealing of electrical conduit;
- Boat maintenance;
- DIY general purpose sealing.

Advantages:

IOTA SLT 3E SIV bonds strongly to clean uncoated glass, ceramics and glazed or painted surfaces without the need to prime.

The rheological properties of **IOTA SLT 3E SIV** allow high rates of extrusion whilst the thixotropy enables the sealant to be used on vertical jointing and underside applications

IOTA SLT 3E SIV presents excellent stability to temperature variations (-30°C to+ 120°C), UV rays, rain, snow...

Characteristics:

- 1, Before curing Type of sealant
acetic
- Specific gravity, g/cm³,approx
0.97
- Flow resistance, mm,
approx 0
- Extrusion ,g/min, approx.
215
- 2, Curing
- Skin formation time*, min. approx.
9
- Tack-free time*. min. approx
20

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Curing rate*, mm / 1 day, approx	
3	
mm / 3 day, approx	6.5
mm / 7 day, approx	9
Application temperature °C	+5 to
+40	
3, After curing	
Shore A hardness,	
approx	20
Elastic recovery, %, approx	
95	
Joint movement capability, %, approx	
20	
Operating temperature, °C	-30 to
+120	
Mechanical properties on a 2 mm thick film after 3 days curing*	
Modulus at 100% elongation, MPa, approx	
0.5	
Tensile strength, MPa, approx	
1.8	
Elongation at break, % approx	
450	
Mechanical properties on slabs *	
Modulus at 60% elongation, MPa, approx	
0.4	
Tensile strength, MPa, approx	
0.7	
Elongation at break, %, approx	
150	

* at a temperature of 23°C and relative humidity of 50%

Processing:

Joint dimensions :

The movement capability of sealants as well as local regulations must be considered.
Joint width should be twice the depth.

Joint preparation:

The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Surfaces should be

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degreased with solvent soaked cloth and then wiped with a clean cloth. To remove dust, use oil-free compressed air.

Priming

For almost substrates, **IOTA S 3E SIV A2** need not primers. Whether use primer or not when applied on special substrates, prior test is recommended.

Sealant application:

For good performance it is essential that the sealant is only bonded to the two facing sides of the joint. To achieve this install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation making sure all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces.

This operation should be made with a dry spatula before skin formation occurs.

Excess uncured sealant should be wiped and cleaned with a commercial solvent, cured sealant can only be removed by scraping (i.e. with a razor blade), or with a special silicone remover product.

Limits of use:

IOTA SLT 3E SIV must not be used on sensitive surfaces which could react with the acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place, e.g. certain rubbers.

Avoid the use of **IOTA SLT 3E SIV** where there is possibilities of food contact.

IOTA SLT 3E SIV is not recommended where abrasion or physical abuse will be encountered. For all uses in permanent immersion, please consult us.

Colors: Translucent, White. For other colors, please consult us.

Packaging:

IOTA SLT 3E SIV is available in 195 kg drums and 820 kg big bags.

Storage and shelf-life:

IOTA SLT 3E SIV has a shelf life of 18 months, guaranteed by IOTA from its date of manufacture (the expiry date is shown on the packaging), when stored at a temperature between -5°C to $+50^{\circ}\text{C}$ in its original unopened packaging. After opening the product must be used quickly.

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