



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号
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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 3RG

Description:

IOTA SLT 3RG is a one-component silicone sealant which when exposed to atmospheric humidity, cures rapidly to form a permanently flexible and extremely durable weather tight seal. The cured sealant will accommodate joint movement of maximal amplitude of 20 % throughout a wide temperature range; resistance to severe weathering is excellent.

Examples of applications:

IOTA SLT 3RG is a high modulus sealant and should be selected for use on applications where joint loads are high and where relative movement between substrates is to be minimised. When used on external joints a weathertight seal or high integrity will result.

- All classical glazing joints;
- Door and window frames;
- Cladding and curtain wall construction;
- Shop windows, display cases, panels and signs;
- Portable buildings, caravans and containers;
- Conservatories and greenhouses;
- Heating, ventilation and air conditioning (HVAC) ducting;
- Construction joints;
- Swimming pools;
- Marine hardware.

Advantages:

IOTA SLT 3RG bonds strongly to clean uncoated glass, ceramics and glazed or painted surfaces without the need to prime. For most other substrates it is recommended that a primer be used, a range of high performance primers is available which will ensure optimal bonding to most commonly encountered substrates.

After cure, **IOTA SLT 3RG** will be resistant to many acids and bases diluted and salt spray and will tolerate short exposure to most industrial solvents and hydrocarbon based products, in the latter case some reversible swelling and softening will occur.

The exceptional translucent quality of IOTA SLT 3RG is such that it is ideally suited for use where the sealant is visually prominent, examples being, display cases and shop windows.

Characteristics:

1, Before curing

Type of sealant

Acetic

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Specific gravity, g/cm ³ , approx	
0.99	
Flow resistance ,mm, approx	0
Extrusion ,g/min, approx.	
230	
2, Curing	
Tack-free time*. min. approx	
6	
Curing rate*, mm / 1 day, approx	
4	
mm / 3 day, approx	8
mm / 7 day, approx	11
Application temperature, °C	+5 to +40
3, After curing	
Shore A hardness , approx	27
Elastic recovery , %, approx	
98	
Operating temperature, °C,	-50 to +120
Mechanical properties on a 2 mm thick film after 3 days curing*	
Modulus at 100% elongation, MPa, approx	
0.6	
Tensile strength, MPa, approx	
2.0	
Elongation at break, % approx	
430	
Mechanical properties on slabs *	
Modulus at 100% elongation, MPa, approx	
0.5	
Tensile strength, MPa, approx	
0.7	
Elongation at break, %, approx	
120	

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

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Processing:

Joint dimensions :

The movement capability of sealants as well as local regulations must be considered. Jointwidth 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 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 SLT 3RG** 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 3RG 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.

IOTA SLT 3RG must not be used for structural glazing applications.

IOTA SLT 3RG should not be painted (poor coverage and adhesion of paints).

IOTA SLT 3RG (once cured) can be used in applications in which there is a risk of occasional short term contact with water-based foodstuffs, but under no circumstances should it be used for permanent contact applications.

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

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

Packaging: **IOTA SLT 3RG** is available in 195kg drums and 820 kg big bags.

Storage and shelf-life:

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IOTA SLT 3RG 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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