

QSiil 214

Character

QSiil 214 is a two-component, transparent and colorless liquid silicone, which will cure at room or elevated temperature. The chemical composition provides hydrolytic stability and reversion resistance. This product is ideal for potting complex parts because it provides electrical insulation and shock resistance.

Technical Data

	QSiil 214A A-Component	QSiil 214B B-Component		
Appearance	Transparent	Transparent		
SG	1,00	1,00		
Viscosity	6.000	6.000	cps	
Mixing ratio	Catalysed Mass 1 : 1			in weight shares
Gel Time at 25°C*	30		Min.	
Durometer, Shore A	Vulcanisate 30 min. at 150°C 40			
Tensil	600		psi	
Elongation	100		%	
UL-94 HB classified	UL listed (file number QMFZ2.E205830) 1,5		mm	
Thermal Conductivity	Additional properties 0,18		W/m*K	
Refractive Index	1,40			
Useful Temperature Range	-55 - 204		°C	
CTE (20°C - 100°C)	308		ppm/°C	
* Gel time is defined as the time required for the material to become a solid or a semi-solid.				

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Storability / Storage

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

Properties

- Medium viscosity
- Fast room temperature cure
- Low linear shrinkage
- Transparent
- Colorless
- Designed for superior adhesion with use of primer

Application Technique

Cure Characteristics

QSil 214 A is reacted with QSil 214 B at a 1:1 ratio by weight. In order to achieve optimum performance, the same lot number of QSil 214 A and QSil 214 B should be used. The curing process begins as soon as parts A and B are mixed together. Elevated temperature can be utilized to accelerate and complete the cure.

Mixing

Combine one part of QSil 214 A with one part of QSil 214 B by weight into a clean, compatible container. The volume of the container should be 3 – 4 times the volume of the material to be mixed. Mix by hand or with mixing equipment until a homogeneous mixture is obtained. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand.

Deaeration

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process the material will expand, and intermittent evacuation may be required. Typically, after releasing the vacuum 2 – 3 times the mass will collapse on itself at which time the vacuum should be left on for an additional 2 – 4 minutes.

Machine mixed material does not normally need to be deaerated.

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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