

Silcoat MC7032

Silicone Sealing and Coating Compound

Typical Properties			
Property	Unit	Value	Test Method
Color / Component (A)		Transparent	Visual
Color / Component (B)		Transparent	Visual
Density	Gram /cc	1.0	ASTM D792
Viscosity (25 °C)	cps	20,000	ASTM D2196
Mixing Ratio	In wt. or vol.	1:1	UATM
Cure Time (25 °C) *	Min	15	UATM
Weight loss in cure	Weight %	< 0.3%	TGA
Property as Cured			
Color		Transparent	Visual
Hardness	Shore A	35	ASTM D2240
Tensile Strength	Mpa	2.5	ASTM D638
Elongation	%	60	ASTM D638
Peel Adhesion (over Al plate @25C)	lb / inch	> 3	UATM
Dielectric Constant	@100 Hz	3.2	ASTM D150
Dissipation Factor	@100 Hz	< 0.01	ASTM D150
Dielectric Strength	Volt/mil AC	> 450	ASTM D149
Volume Resistivity	Ohm-cm	> 10E+14	ASTM D257
Tg	°C	-120	TGA
Useful Temperature Range	°C	-55 to 200	TGA

These figures are only intended as a guide and should not be used in preparing specifications.

UATM – United Adhesives' Test Method

* Deep section cure at ambient condition will typically take up to 24 hrs

Processing Instruction

Important! To reach best results, the coating surface needs to be clean and free of oil, grease, lubricants, soaps, dust, mold release agents, etc. Cure time will take instantly after mixing A, B part (1:1) ratio. However, a deep section cure at ambient condition will typically take up to 24 hrs.

We recommend running preliminary tests to optimize conditions for the particular application. The cure of MC7032 may be accelerated with a higher humidity and temperature. Recommendations for automated dispensing equipment and accelerated cure profiles can be obtained by contacting directly to United Adhesives, Inc.

Storage

Silcoat MC7032 has a shelf life of at least 12 months when stored at ambient (< 25 °C) in the originally sealed container. Storage beyond the date specified 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.

Safety information

Silcoat MC7032 silicone releases low content of oxmine volatile by-product in cure process when it is exposed to moisture. Please use adequate ventilation in its cure stage. General hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets that are available on request from United Adhesives, Inc.

Characteristics

Silcoat MC7032 is room temperature curable sealing and coating compound. It is two-component, solvent-free silicone. After mixing, it cures instantly to forms a rubbery layer with excellent adhesion to most substrates, which provides protection for electronic devices. It is non-corrosive and self-priming adhesion, and can be automated to dispense from pails (A, B) or hand extruded from a dual cartridge.

Special Features and Benefits

- Room temperature curable
- Fast cure speed after mixing
- Solvent free (100% solid)
- Bond to various substrates
- Strong media resistance
- Flexible over -40 °C to 180 °C
- Excellent dielectric property
- Low thermal stress

Typical Applications

- Protection of electronic components / devices
- For harsh environment applications
- Water resistant coating
- Automotive electronics
- Semiconductor and Telecommunications
- Low thermal stress coating

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. For technical, quality, or product safety questions, please contact directly to United Adhesives Inc.