

Product description	MS9210 is an one-component sealant & adhesive based on Silyl-Modified Polymer(SMP). It can be paintable and it cures by reacting with moisture in the atmosphere. MS9210 doesn't contain isocyanate and phthalate, so It has excellent UV resistance, and can be applied indoors and outdoors.
Applications	<ul style="list-style-type: none"> * Sealing & Glazing around automotives * Sealing and adhesive for construction * Industrial sealant & adhesive
Key performance properties	<ul style="list-style-type: none"> * High green strength (very high initial adhesion and strength) * Fast curing

Typical Property Data

Benefits	<ul style="list-style-type: none"> * Very high initial strength * Good workability.
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Typical properties	(Tested at 23 °C, 50 % relative humidity)		
	Property	Unit	Result
	Main Polymer	–	Silyl-modified polymer
	Curing System	–	Moisture curing
	Color	–	White, etc
	Consistency	–	Soft paste
	Tack free time	min	Max. 30
	Curing rate	mm/day	Approx. 3.5
	Specific Gravity	–	1.47 ± 0.1
	Hardness	Shore A	Approx. 55
	Tensile Strength (ASTM D 412)	N/mm ²	Approx. 2.5
	Elongation (ASTM D 412)	%	Approx. 350
	Packaging	–	300 ml Plastic cartridge 500 ml AI Sausage package
	Shelf Life	Month	12
	Weathering	–	Excellent
* ASTM: American Society for Testing and Materials			
Notice			
1) These property values are tested in a lab condition. They might be changed by testing and storage conditions.			
2) Please contact to KCC sales office before writing specifications on this product.			

Composition	Silyl-Modified Polymer
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How to use	<p>1) CLEAN ALL JOINT SURFACE</p> <p>① Clean all substrate surface contamination like dust oil, frost, etc.</p>
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② Wipe polluted parts with solvent and a piece of cloth. Do not use detergent, soap and water. For solvents, please use MEK or toluene. but if there is a risk of damaging the substrate surface, if so use isopropyl alcohol and apply MS9210 only on a clean & dry surface.

2) PRIMING

① Before applying the sealant, be sure to check the adhesion to the substrate through an adhesion test before applying it. We provide adhesion test service for building project recommend suitable primers after adhesion test.

② Apply Koreseal primer evenly on the substrate. Use a clean lint-free cloth or a primer brush to apply the primer in a thin layer of less than 10 μ m without air bubbles. For detailed primer usage and precautions, refer to primer TDS and contact KCC sales person (Excessive usage of primer may cause adhesion failure, so apply it carefully. If primer applied excessively, a white film is formed on the surface, which may cause poor adhesion, so you need to wipe it clean before proceeding)

③ Primers are highly flammable and must be used carefully in a well-ventilated area.

④ Avoid working in rainy days or high humidity days (over 85%) and low temperatures (below 5°C).

Cracks or poor adhesion of primer may occur.

⑤ It is recommended to apply the sealant within the effective time after applying the primer.

⑥ Use it in a small and clean bottle and pls,use it in a day and don't reuse it again when it exposed at ambients or contaminants.

⑦ Keep the primer in storage, lid should be tightly sealed to prevent moisture penetrations.

3) APPLYING SEALANT

① After applying the primer, use the sealants as soon as possible within the effective time after the specified drying time. The effective working time will be different depending on the environments (temperature, humidity)

② Apply the sealant from the intersections or edges of the joint and It help fill to avoid voids or air pockets, work don't always have be finished at intersections and corners.

4) CLEANING

Clean all stuffs work around and do not touch when sealant is curing.

Storage and packaging

Shelf life and storage

– Use it within 12 months from the day of manufacture. As change in quality can be possible at long term storage use in validity.

– Store in original unopened containers in a dry place. Temperature should not exceed 25 °C for prolonged periods. (Recommended at 5 ~ 25 °C)

– Please, refer product MSDS for more details regarding safety information.

– If storage temperature is not controlled, product life may be affected and deterioration of quality and oil separation may occur even within the expiration date.

(Please use it after removing the oil-separated part as much as possible.)

Remarks

<p>Handling Precautions</p>	<p>1) Before using it, check the substrate because surfaces of substrates should be always dry, if it has contamination by environment, It need to be removed.</p> <p>2) Avoid working in rainy days, high humidity days (over 85%) and low temperatures (below 5°C).</p> <p>3) During transportation and storage, avoid direct sunlight and store in a dry, cool and dark place (5~25°C) with little humidity to prevent deterioration of the contents. Storage of this product in the conditions above 25 °C may deteriorate the storage performance. Be sure to keep the container sealed and store the remaining amount after use in the same way. (When moisture is mixed, it becomes gel and cannot be used.)</p> <p>4) Use at room temperature and relative humidity of 30 to 80%, and do not use at a surface temperature over 50 °C .</p> <p>5) Complete curing time is depend on the thickness of sealants and environments.</p> <p>6) Do not mix with other products (solvents, diluent).</p> <p>7) Wear eye protection and protective gloves when handling this product.</p> <p>8) Keep in place that child's hand does not touch. Never ingest.</p> <p>9) Do not store products or work near fire.</p> <p>10) Maintain adequate ventilation in the work place at all times.</p> <p>11) Do not use except for intended purpose.</p> <p>12) Be careful not to impact the container.</p> <p>13) Wash your skins cleanly after work.</p> <p>14) Discard wastes in accordance with in a environmental law.</p> <p>15) Since this product is a chemical product, it may be subject to deterioration when stored in a long period of time. Pls, use it within the expiration date. Product quality is not guaranteed for product deterioration after the expiration date.</p> <p>16) Products with bright colors may cause yellowing when exposed to sunlight or UV for prolong time. Please be aware of using it.</p> <p>17) When applying paint on the sealant, be sure to check the adhesion to the paint and whether it has compatibility before applying it.</p> <p>18) Before painting on the sealant, it is necessary to check the compatibility between the sealant and the paint whether It endures movements capability of sealants. If the compatibility between paint and sealant is abnormal, it may cause discoloration. Differences in motion allowable capacity may cause cracks on the painting surface.</p> <p>19) Be careful not to apply physical impact before the sealant is completely cured.</p> <p>20) In applications for sealing purposes, the determination of the width and depth of the joint is very important. Too narrow or deep joints are undesirable.(Recommended joint specification – Width: Depth = 2: 1, The width of the adhesive surface must be at least 6mm. When constructing less than 6mm, defective adhesive may occur depending on the substrate and construction conditions. When applying it in constrution. Pls, refer to ASTM C 1193)</p> <p>※ Please contact our technical department for inquiries regarding the proper joint shape.</p>
<p>Limitation</p>	<p>MS9210 should not be applied :</p> <p>1) To building materials of adhesive hindrance or discoloration that bleed oil, plasticizer or solvent and so on.</p>

- 2) In totally confined spaces.
 - 3) When substrate surface temperatures exceed 50 °C or under 5 °C .
 - 4) To wet surface (on frost-laden or damp surfaces).
 - 5) Humid day (over 85% relative humidity day).
 - 6) For continuous immersion in water.
 - 7) Surface in direct contact with food.
 - 8) At continuously high pressure and high temperature.
 - 9) For flame retardant application in buildings.
 - 10) Sealant joints area that is expected by physical friction.
 - 11) Do not use with incompatibility materials.
- ※ Confirmation is necessary in regard of MS9210 before use.
 - Apply after adhesion and compatibility test although adhesion of sealant is excellent to most of building materials.
 - Sufficient tests are needed for purposed applications. The applicability of sealant is depend on the decision of customer.
 - ※ Inquire other questions to customer service.
 - ※ When there is something wrong to product, it can be compensated by compensation regulation.

Warranty information	<p>The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that KCC Silicone's products are safe, effective, and fully satisfactory for the intended end use.</p> <p>KCC Silicone's sole warranty is that the product will meet the KCC Silicone sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to replacement of any product shown to be other than as warranted.</p> <p>KCC Silicone specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless KCC Silicone provides you with a specific, duly signed endorsement of fitness for use, KCC Silicone disclaims liability for any incidental or consequential damages.</p> <p>Suggestions of use shall not be taken as inducements to infringe any patent.</p>
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※ Please refer to MSDS if you want to know more specific usage or caution. for further information, please see our website, www.kccworld.co.kr