

RK 1601-0038

DESCRIPTION

The RK1601-0038 is a one component epoxy adhesive system sold in frozen ready-to-use syringes. The adhesive is a spreadable paste consistency and is excellent for bonding rigid materials such as metals, stone, porcelain, glass, and ceramics. The adhesive cures at room temperature, or can be rapidly cured with heat. The cured polymer has a low coefficient of thermal expansion and good chemical and environmental resistance.

<u>HANDLING PROPERTIES</u>	<u>VALUE</u>	<u>TEST METHOD</u>
<u>RK 1601-0038</u>		
Visual Appearance	Black paste	
Flash Point	>100°C	ASTM D-92
Shelf-life	12 months stored at -40°C or colder	
Gel time @ 25°C (100 grams)	90 minutes	
Cure Schedules:	At 25°C / 77°F the minimum cure time is 24 – 48 hours, full properties may take 2 – 7 days to fully develop. Cured for 30 minute at 200°F / 93°C	
*Note: many other cure schedules are possible, please contact us for alternate cure schedule suggestions		

<u>PHYSICAL PROPERTIES</u> (Tested at 25°C unless otherwise noted – cured 30 minutes @ 93°C)		<u>TEST METHOD</u>
Color	Black	Visual
Hardness, Shore D At 25°C	84D	ASTM D-2240
Tensile Lap Shear (AL:AL)		ASTM D-1002
@ -55°C (-67°F)	1400 psi	
@ 25°C (77°F)	1800 psi	
@ 82°C (180°F)	1150 psi	
Glass Transition Temperature	58°C	ASTM D 648

NOTE : Values are based on laboratory or average production results – not for specification purposes.

PROCESSING AND APPLICATION INSTRUCTIONS :

Remove frozen syringes from -40C storage and thaw for approximately 15 – 30 minutes or until syringes are at room temperature. Do not use a hot plate or other heating methods. For best results, place syringes directly in contact with a metal surface to allow for gentle warming.

Syringes are ready to use once thawed. Leur lock dispensing needles may be used to control the amount of material dispensed. Air pressure operated dispensing systems and hand-held dispensing

guns are also available. Please contact for assistance if you are interested in this type of dispensing equipment to use with the thawed syringes.

SURFACE PREPARATION

For best bond strength, roughen the surface to be bonded using sandpaper, a wire brush, sand-blasting or similar means. If needed, clean and degrease surface prior to application. For critical applications or hard to bond surfaces please contact us for further surface preparation procedures.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

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WARNING! May causes skin and eye irritation. May cause allergic skin and respiratory reactions. Harmful if inhaled or swallowed. Do NOT get in eyes, on skin, or clothing. Wear chemical splash goggles and impervious gloves when handling. Wash skin and clothing thoroughly after handling. Avoid breathing vapor or mist. Use only with adequate ventilation. Keep containers closed when not in use. Do NOT take internally.

FIRST AID

In case of contact:

Skin – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather.

Eyes – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention.

Inhalation - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Ingestion - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supercedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

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