Product Datasheet

SP&S Specialty Polymers and Services

RUBR-WELD™ 187A/B

HIGH PERFORMANCE RUBBER ADHESIVE

RUBR-WELD™ 187 is a high performance neoprene rubber adhesive. It is excellent for bonding fabrics coated with Neoprene or Hypalon, synthetic fabrics (nylon, dacron, rayon, etc.) and for bonding natural and synthetic rubber parts. The mixed adhesive has a long pot life of 8 hours at room temperature When cured the RUBR-WELD™ 187A/B provides tough, flexible bonds that resist chipping and peeling and remain flexible over a wide range of temperatures. Bonds produced with RUBR-WELD™ 187A/B are resistant to vibration, mechanical shock, mold, fungi, oxidation, moisture, and some chemicals. When cured the RUBR-WELD™ 187A/B provides excellent dielectric insulating properties.

For applications where penetration into the substrates is not desired higher viscosity versions of this product are available. Other custom variations – such as custom color or viscosities are available on request. Please contact us to discuss your application if you think such a variant would be helpful for your application.

APPLICATIONS & BENEFITS:

- Sealer/waterproofer for awnings, tarps, outdoor furniture, & above water surfaces of watercraft
- Excellent for seaming and splicing belts, hoses, gaskets, and other rubber parts.

HANDLING PROPERTIES	VALUE	TEST METHOD
Base Materials	Synthetic Rubber in Solvent	
Color	Cream or Black	
Odor:	Mild Phenolic	
Density	0.95 g/cm³	ASTM E-201
Weight per gallon	7.9 lbs/gallon	ASTM E-201
Viscosity @ 25ºC, Spindle 2 @ 20rpm	1400 cps	ASTM D-2393
Percent Solids (non-volatile %)	22.5%	
Flash Point (SETA)	0°F	
Flammability:	Does Not support Combustion	
Mix Ratio by weight:	100 parts A to 1 part B	
Mix Ratio by volume:	1 gallon part A to 1 fluid ounce part B	
Drying time:	Dries in about 20 – 45 minutes at room temperature	
Curing time:	At room temperature full curing will take 3-7 days. At 270°F curing will be completed in 1 hour	

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

SUGGESTED PROCESSING GUIDELINES:

Mix Part A and Part B following the mix ratio given above. Blend thoroughly by stirring the mixture or , rolling or shaking a sealed container with both components. Thorough mixing is important for development of full properties. Apply the adhesive to all surfaces to be bonded. It is most commonly applied using a stiff brush, a short nap roller or squeegee, but the adhesive can be diluted with additional solvent and applied by spraying as well. Suitable solvents for thinning include Toluene and Tert Butyl Acetate (TBAc). However using additional solvent will increase the drying time. Apply the adhesive to the entire surface to be bonded and allow to dry for at least 20 minutes. Then apply another 1 or 2 light coats to ensure total coverage of the surfaces to be bonded.

Once the final coat is applied, allow the coating to dry until it is highly tacky (about 12 – 18 minute at room temperature) and press the surfaces to be bonded together with an even pressure such as from a two pound hand roller or a press.

The mixed adhesive has a work-life of 8 hours, so the adhesive can be applied to multiple surfaces, allowed to dry to a non-tacky state and then sometime later in the day (but still within the 8 hour work-life) the surfaces can be re-tackified by spraying, brushing or wiping toluene over the adhesive surface to make it highly tacky once again. Once tacky, the surfaces can be placed together and pressed or rolled with an even pressure to produce a firm bond. Allow to dry and set at room temperature overnight or for at least 16 - 24 hours, at which point the bond can be allowed to finish curing at room temperature or heat cured as described above. If a heat cure is used, allow the cured bond to cool to room temperature and equilibrate overnight before testing or subjecting to full mechanical load.

Surface Preparation: before bonding, clean the surfaces to be bonded. Once option is to clean the surfaces with cheesecloth saturated in Naphtha or Toluene. The cleaning should remove all embedded particles of talc, dirt, and grease in order to insure the maximum bond strength. Before applying cement, allow fabric or rubber surfaces to dry for at least 15 minutes or until any solvent or water used for cleaning has completely evaporated.

Where possible, it is often desirable to lightly abrade the surfaces to be bonded to gives more surface area for bonding and more mechanical interlocking of the adhesive with the surfaces. Mildly heating the surfaces to be bonded may also improve surface wetting and will speed the solvent evaporation from the adhesive.

STORAGE GUIDELINES:

Store this material in a clean, cool and dry environment out of direct sunlight and away from heat, sparks, or flames. Tightly reseal containers after use to prevent evaporation. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months from the date of shipment.

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:

RUBR-WELD™ 187A/B

WARNING - AS WITH ALL INDUSTRIAL MATERIAL USE CAUTION AND PERSONAL PROTECTIVE EQUIPMENT WHEN WORKING WITH THIS MATERIAL. Avoid breezing vapors. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Extended exposure could cause irritation of the nasal passages, eyes, or skin. Wash thoroughly after handling. Use only with adequate ventilation. 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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