

LIQUIDWELD™ 832 Sealant

1 PART HIGH TEMPERATURE SEALANT

Liquidweld 832 Sealant is a one component, solvent-free, heat curing sealant that bonds to clean or electrocoated metal to form an excellent seal. It does not off-gas during curing and can be used in high heat applications that see up to 200°C. This makes the makes Liquidweld 832 Sealant excellent for powder coating and many other applications, especially where silicones are not suitable.

Liquidweld 832 Sealant is ease to dispense, spread, and apply, and once applied the sealant remains in place without sagging or flow in layers up to ¼” thick.

Unlike Silicones, the cured coating is paintable most common paints and for powder coating applications the powder coating can be applied directly to the wet sealant or the sealant can be cured, and the powder coating applied later. In either case, the powder coating will produce a beautiful coating layer without defects from the sealant.

SUGGESTED APPLICATIONS:

- Sealant for High Temperature (up to 200°C) applications
- Sealant for metal parts prior to Powder Coating

HANDLING PROPERTIES

	<u>VALUE</u>	<u>TEST METHOD</u>
Visual Appearance	White Paste	
Density, g/ml	1.45 g/cm ³	ASTM E-201
Severs Viscosity, 0.104” orifice at 40psi	7-20 seconds/20g	ISO 4575
Solids Content	>99%	

PHYSICAL PROPERTIES (Tested at 25°C unless otherwise noted)

Adhesion to Ecoat and bare Steel 30 minutes at 175°F ((79.4°C)	Excellent
Heat Resistance 1 hour at 200°C	Excellent
Shore Hardness	71A

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

SUGGESTED PROCESSING GUIDELINES:

Product Datasheet



Apply to clean, dry metal parts. If superior adhesion is required on bare metal a Primer such as our Primax S or Primax M can be used to chemically modify the surface to provide greater adhesion. On electrocoated metals primers are usually not required.

Apply the sealant from its syringe or cartridge manually or using a manual or pneumatic dispensing gun as appropriate for the syringe or cartridge you are using. This product has a very long work-life once applied. For all practical purposes, the work-life is days or longer, but if the sealant is not cured it could pick up dust and other contaminants from the environment, so it should be covered and protected from contamination until ready to be cured or powder coated or else at least pre-gelled as mentioned below. Once applied, the sealant can be spread and tooled with any conventional caulking tools. It holds fillets and profiles well with very little to no shrinkage during curing, so rounded corners and square edges can be achieved if so desired.

Pre-Gel Time: a partial set suitable to prevent dust from sticking to the sealant (about 30 Shore A Hardness): 1 hour at 100°C, 15 minutes at 150°C or 3-5 minutes at 195 °C

Cure Time: minimum cure times are 30 minutes at 175°C or 10 - 15 minutes at 195 °C. Maximum cure time is 1 hour at 204 °C.

In general, powder coating customer will often use the cure schedule that they are using for their coating as the cure schedule for the sealant as long as it fits within these parameters. Longer and hotter cured may cause some minor discoloration (slight yellowing) of the sealant), but this is typically minor and in powder coating application has no effect on the final appearance of the coating.

Product Clean up & Removal – uncured material can be cleaned up using isopropyl alcohol (IPA). Cured sealant should be by cutting like other caulk or sealants and IPA can be used to help soften and residues to help completed the cleanup.

SUGGESTED PROCESSING GUIDELINES:

This product is available in 10.3 fluid oz (420 gram) caulking style cartridges and also in 30ml and 55ml syringes in both EFD (air pressure dispensed) and Manual styles.

STORAGE GUIDELINES:

Store these materials in a clean, cool and dry environment in their tightly closed original containers. Store at 5°C (41°F) - 25°C (77°F). Do not allow to Freeze as this may affect product quality or shelf-life. Keep away from heat and direct sun light. 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:

Product Datasheet



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.

SAFETY & PERSONAL HYGIENE:

DANGER:



CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE DAMAGE.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
MAY CAUSE CANCER.

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 supersedes 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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