3M Scotch-Weld[™] Anerobic Adhesive Activators

AC649 • 3989

Technical Data March, 2010

Product Description

3MTM Scotch-WeldTM Anaerobic Adhesive Activators are general-purpose surface activators/ primers that cure anaerobic adhesives on inactive or very cold surfaces. For normal active surfaces, 3MTM Scotch-WeldTM Anaerobic Activators accelerate both fixture and cure times significantly.

Specific Features

- Useful for promoting the adhesion and cure of 3MTM Scotch-WeldTM Threadlockers, Pipe Sealants, Retaining Compounds and Gasket Makers.
- Can be pre-applied to parts days in advance.
- Aids the successful bonding of parts with larger bond gaps.
- 3MTM Scotch-WeldTM Anaerobic Adhesive Activator 3989 is a canned aerosol packaging of 3MTM Scotch-WeldTM Anaerobic Adhesive Activator AC649

Typical Uncured Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

	3M™ Scotch-Weld™ Anaerobic Adhesive Activators	
	AC649	3989
Color	Green	Green
Solvent	Acetone	Acetone
Appearance	Liquid	Aerosol
Specific Gravity (g/ml)	0.79	0.79
Viscosity (cps)	2	2
On-Part Life (days)	30	30

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Handling Information

Directions for Use

- 1. Ensure parts are clean, dry, and free from oil and grease.
- 2. Apply to one or both bonding surfaces.*
- 3. Allow parts to dry completely (usually 30-60 seconds). Activator-coated parts may be held up to their On-Part Life but surface contamination must be avoided.
- 4. Apply a 3MTM Scotch-WeldTM Anaerobic Adhesive to one or both parts making sure there is sufficient product coverage.
- 5. Assemble immediately, moving surfaces back and forth to ensure full distribution of the adhesive.
- 6. Secure the assembly until fixtured.

An alternative method of use is in post assembly application. After apply anaerobic adhesive and assembling parts the anaerobic activator is applied topically over the joint area to aid cure.

*Note: When using solvents and/or aerosols, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Caution: Never mix adhesives and activator/primer liquids together.

Material Surface Activity and Cure Speed

Active (Fast)

- Brass
- Bronze
- · Commercial aluminum
- Copper
- Iron
- Kovar®
- Manganese
- Monel®
- Nickel

→ Inactive (Slow)

- Anodized aluminum
- Cadmium
- · Chemical black oxide
- · Galvanized steel
- Gold
- Inconel[®]
- Magnesium
- · Magnetite steel
- · Plated parts
- Pure aluminum
- Silver
- · Stainless steel
- Zinc

$3M^{\text{\tiny TM}}$ Scotch-Weld Anaerobic Adhesive Activators

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Storage	Store product in cool, dry area out of direct sunlight. Twelve months when stored at 60° to 80°F (16° to 27°C) in the original unopened container.	
Shelf Life		
Precautionary Information	Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501.	
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.	
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.	
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3M

Industrial Adhesives and Tapes Division

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