

LOCTITE EDAG PE 428E E&C

April 2023

PRODUCT DESCRIPTION

LOCTITE EDAG PE 428E E&C provides the following product characteristics:

Technology	Thermoplastic
Appearance	Grey liquid
Filler Type	Silver and Silver chloride blend
Product Benefits	<ul style="list-style-type: none"> Compatible with other LOCTITE silver and carbon inks
Diluent	Water
Cure	Heat drying
Application	Conductive coating
Typical Medical Device Application	Body contact pads, Medical sensors, ECG/EKG disposable electrodes and TENS pads

LOCTITE EDAG PE 428E E&C is a blend of silver and silver chloride pigment in a resin system designed for printing on flexible substrates. It is suitable for applications using flexographic or rotogravure printing techniques.

LOCTITE EDAG PE 428E E&C meets ANSI/AAMI standards for Pregelled ECG Disposable Electrodes (when used with appropriate gel).

TYPICAL PROPERTIES OF UNDRIED MATERIAL

Solids Content, %	77
Particle Size, μm	<100
Viscosity, Brookfield, 20 °C, mPa·s (cP):	
Speed 20 rpm	700
Theoretical coverage @ 10 μm dry film thickness, m^2/kg	14.6
Shelf Life (from date of qualification in original seal), months	12
Flash Point, °C	>100
Silver:Silver Chloride Ratio	9:1

TYPICAL DRYING PERFORMANCE

Recommended Drying Schedule

15minutes @ 95°C

The above cure profile is a guideline recommendation. These cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF DRIED MATERIAL

Dried coating on glass after 10minutes @ 70°C

Electrical Properties

Sheet Resistance, Ohm/sq/25 μm 0.018

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

DIRECTIONS FOR USE

Application

- Contact with metal equipment and exposure to light should be avoided as much as possible due to product's silver chloride content.
- Surface to be coated must be dry and free of contaminants such as oil or chemical residues.
- This product can be applied by flexographic or rotogravure printing and dispensing methods.
- Recommended dry coating thickness of 5 to 8 μm .

Mixing/Dilution

- Gently stir product or place on a paint shaker prior to use. Avoid rapid stirring, as this causes air entrapment.
- LOCTITE EDAG PE 428E E&C is supplied ready for use.
- If thinning becomes necessary, dilute with small amounts of Water being careful to maintain a high content of solids, maximum amount not to exceed 5% by weight.

CLEAN-UP

The screen and equipment can be cleaned with dilution solvent, or esters (butylacetate, propylacetate, or ethylacetate), or ketones (MEK, Acetone), or similar solvents.

STORAGE

Keep from freezing.

Store product in the unopened container in a cool dry well ventilated area. Storage information may be indicated on the product container labeling.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel Representative.

Empty containers may retain hazardous properties.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.



Conversions $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$ $\text{kV/mm} \times 25.4 = \text{V/mil}$ $\text{mm} / 25.4 = \text{inches}$ $\text{N} \times 0.225 = \text{lb/F}$ $\text{N/mm} \times 5.71 = \text{lb/in}$ $\text{N/mm}^2 \times 145 = \text{psi}$ $\text{N/mm}^2 = \text{MPa}$ $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$ $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$ $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$ $\text{mPa}\cdot\text{s} = \text{cP}$ **Disclaimer**

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Reference 0.1