



ELECTRA

TECHNICAL DATA SHEET

ELECTRALUX ELX40

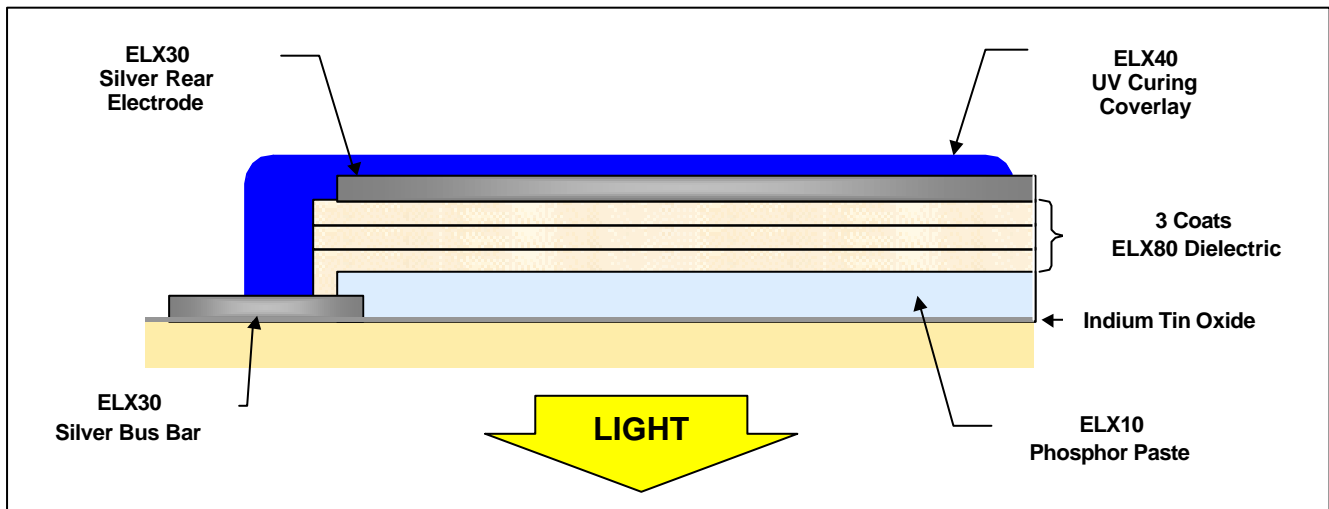
1-COMPONENT UV CURE COVERLAY
ELECTRO LUMINESCENT LAMP APPLICATIONS

PRODUCT DESCRIPTION

ELX40 is a range of coverlay materials used to provide electrical insulation and protection of **electro luminescent (EL) lamps**.

ELX40 is formulated to give excellent adhesion performance with **ELX80 Dielectric Pastes** and **ELX30 Silver Conductor Paste**.

Recommended lamp construction:



PRODUCT RANGE

- ELX40-W White
- ELX40-B Blue
- ELX40-N Black
- ELX40-T Transparent

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ELX40rev4

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PROCESSING

Printing: Mesh: 62HD or 90 -120T polyester (minimum 20N tension)
Squeegee: 65 Shore hardness are recommended, made of polyurethane or rubber
Emulsion: 15 microns proud of mesh. Typically achieved with a 35µm capillary film.
Thickness: Approximately 15-20µm wet.

Curing: 600 to 1000mJcm⁻². Under curing can result in a decline in physical and electrical properties.

VISCOSITY ADJUSTMENT

ELX40 Coverlays are produced to a closely controlled viscosity specification. The viscosity of **ELX40** has been designed to give the best printing properties under production conditions. However, in cases where viscosity adjustment is required, Reducer **ERV1** is available and may be added at levels of up to 5% by weight and thoroughly mixed in. It is recommended that additions be made only after consultation with Electra Laboratories.

SHELF LIFE:

Minimum 6 months from date of manufacture, when stored in cool dry conditions.

CLEAN-UP:

After printing, the screen and utensils should be cleaned of residual material using Universal Screenwash SW200.

STORAGE:

Store between 10°C – 25°C in a dry store. Avoid subjecting containers to temperatures below 5°C because of risk of splitting.

FINAL PROPERTIES

Insulation Resistance: 10¹² Ohm.
Pencil Hardness: HB
Crease test: 60s at 2 bar pressure. No cracking or delamination
X-hatch: 100% adhesion
Solvent resistance: 60s immersion in MEK. No softening or swelling



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