

Step by Step: Exposure Guide

Exopack Advanced Coatings

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Process Control of the Diazo Phototool

Duratool Tecnilith Films

Positive working, room light handling films specifically designed to reproduce the printed circuit master artwork.

Features

Specially formulated emulsion for sharp resolution and highly defined images.

Films are coated on a .007" polyester base for maximum dimensional stability and durability to keep their original image geometry.

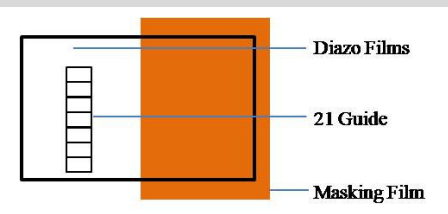
Processing Tips

These pages will identify correct methods of accomplishing exposure and development, list common problems and provide practical trouble-shooting solutions.

Process Control

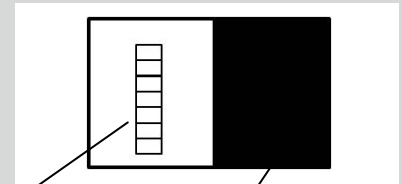
One of the advantages of the Diazo Phototool to the user is that all of the sensitometry is controlled (coated) on the film by the manufacturer. Unlike silver films, Diazo cannot be over-developed, thus eliminating all the variables of the effect chemistry on the density and shape of the imaged line. However, underdevelopment is possible and proper control over the process is highly recommended. The use of a densitometer does not verify full development. We therefore recommend the following as a way to verify both the correct exposure and development of the Diazo Phototool process and suggest that it be done once during a production shift or when the user has any doubts about the processing to full development.

Step One – Use unprocessed film and expose the 21 Step Guide with a masking material so you are sure that no ultraviolet light can pass through. Use your normal production exposure in the following manner:



- (1) Expose with normal exposure
- (2) Develop exactly as you do your production film

The result should be:

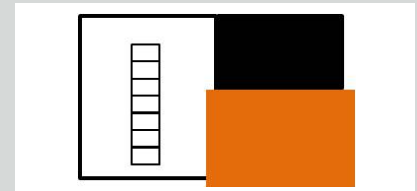


For best exposure consult attached Exposure guide

Solid (D-MAX) area is to be used to check development

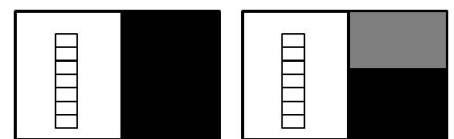
Note: Check for faint Step 2.

Step Two – Return the film to the exposing unit, placing it into the unit with the base toward the light source. (**Note:** This is the key to the test) Base toward light: Mask of half of the previously masked area.



Now expose two times normal exposure and redevelop film.

Step Three – Inspect Film



Through this simple three-step process it is possible to verify both exposure and full development of the Diazo Phototool.

Tecnilith®

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