MIPP® 2000 – The new generation of Metallic Integrated Process Printing

1. What is MIPP®?

MIPP® (Metallic Integrated Process Printing) makes it possible to integrate a metallic effect colour in halftone into an existing 4-colour separated image file as a fifth colour.
This means that the colours in printed pictures can be given metallic effects and that silver or gold tones as well can be reproduced very realistically.

This CD-ROM contains the MIPP® 2000-Tool together with operating instructions to acompany you step by step through the application. Additionally image files are provided to help you to implement 4-colour pictures in the MIPP® process. Adobe Acrobat® Reader is required to use the operating instructions. The MIPP® 2000 -Tool itself is loaded as an "action" in Photoshop 5.0® or higher.

Please note: Extensive explanations and printing guidelines can be obtained from the ECKART homepage (www.eckart.de). In order to obtain the required results, you should print them out and place them at your printers' disposal!
A proof print is indispensable for assessing the metallic effect.

2. Requirements for using MIPP® 2000

System requirements:

- Adobe® Photoshop® 5.0 or higher
- Adobe Acrobat® Reader (for using operating instructions)
- Windows or Macintosh computer with at least 100 MB RAM.

Picture material requirements:

- High-end scans ; colour-separated
- Resolution 304.8 dpi

Basic knowledge of picture processing with Adobe® Photoshop® is an advantage.

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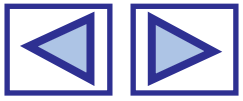

3. Image processing with the MIPP® 2000 Tool

The MIPP® 2000 -Tool is a Photoshop® action consisting of 4 parts. The operating instructions contained on the CD-ROM describe the application in detail. The following instructions should be observed in the individual steps:

A - LOAD SEPARATION

This action helps you to save and load the separation curves.
It is absolutely necessary to use the SEP.API curve when working with MIPP® 2000 .

B - CREATE MASK

Here, selection is done by means of "Colour range". The action guides you through the individual steps. Experienced Photoshop® users may be able to dispense with this action and create the mask themselves in the familiar way.

Important: The selection must be designated as "Alpha 1".

C - GENERATE SILVER

This action creates the 5th colour channel from your image file.

Important: The Super Gloss Silver channel should not exceed 80% area coverage.
If necessary, this will have to be corrected with gradation curves.

D - CALCULATE SEPARATION

Here, the colour ratio of the colours is adjusted to take into account the silver or gold application.

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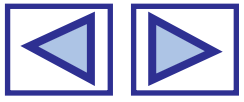

Information

- For proof printing it is necessary to use original METALSTAR® SUPER GLOSS MIPP®-inks from ECKART!
- Metallic effect colour must be avoided in black areas from 3/4 tone upwards!
- Metallic effects visible from approx. 30% to 80% coverage with SUPER GLOSS MIPP® -ink.
- If gold tones are to be simulated the silver separation can be used for printing with METALSTAR® SUPER GLOSS MIPP®gold ink
  The contrast in silver or gold must be maintained

For printing guidelines see:
www.eckart.de

Copyright and Liability

The MIPP® 2000-Tool contains special program settings for Adobe® Photoshop® and an Acrobat Reader documentation.

You use it at your own risk. The publisher accepts no liability on any grounds whatsoever, for the functioning of the MIPP® 2000-Tool or its suitability for a particular purpose.

The MIPP® 2000-Tool is freeware. You are specifically invited to make unlimited use of it and to pass it on to third parties.

The sale of the MIPP® 2000-Tool is illegal!

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Idea and implementation: CANDELA Studio for digital photography and prepress technologies.

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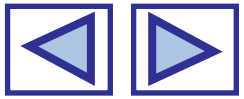
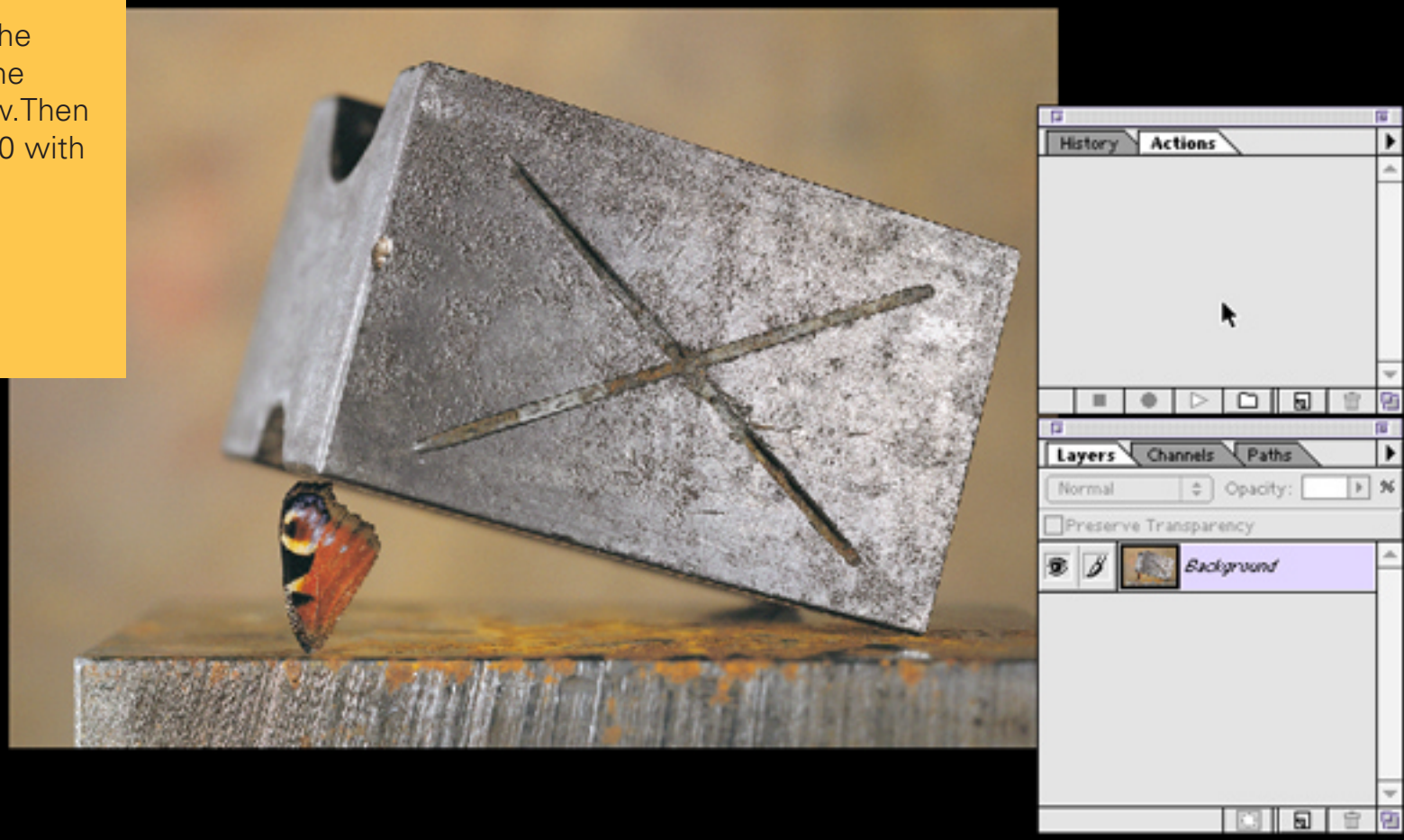


ECKART

After opening the picture, open the "Action" window.Then open MIPP2000 with "Load action".

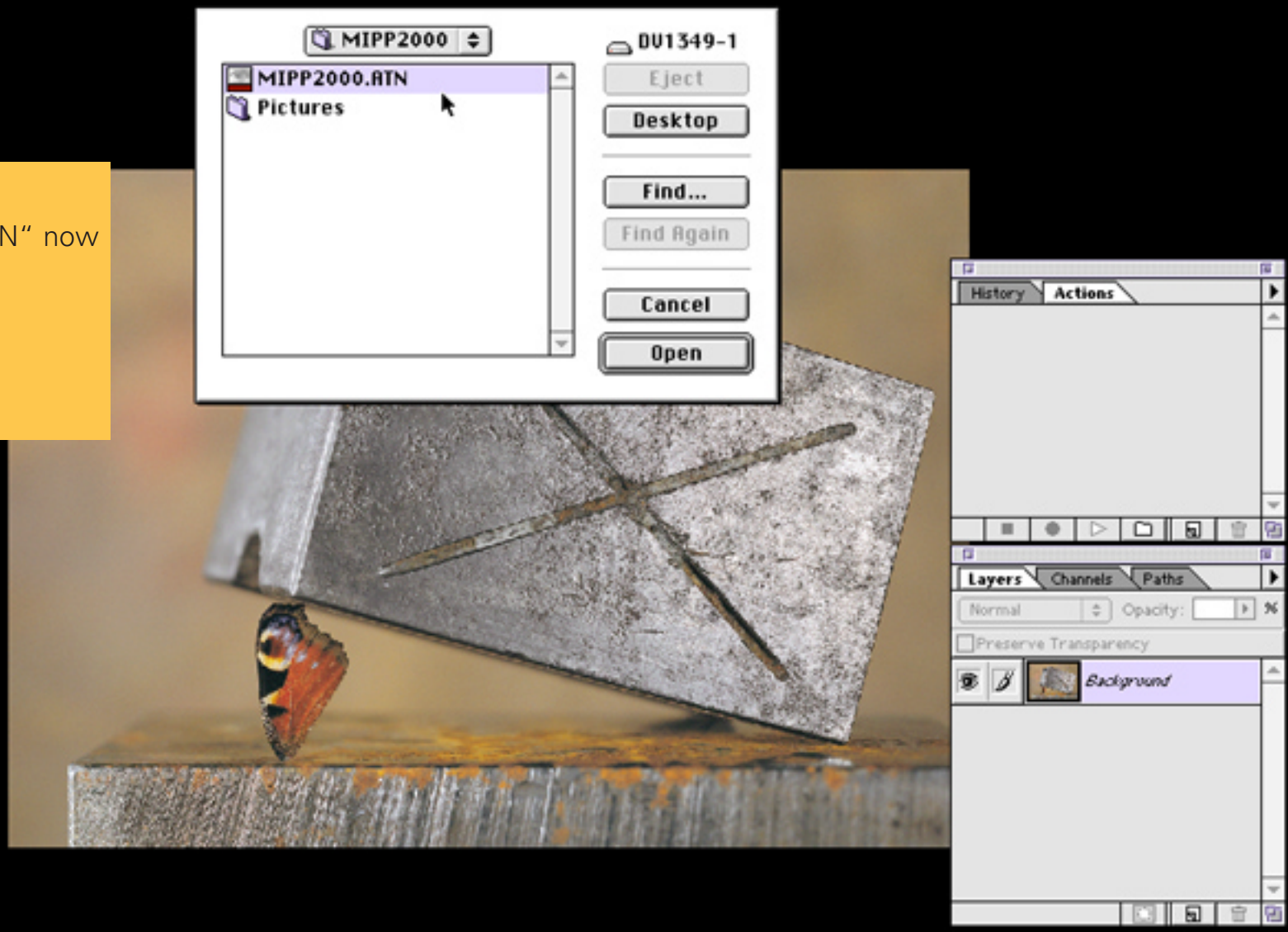
Continue with arrow key



ECKART

The action „MIPP2000.ATN“ now will be opened.

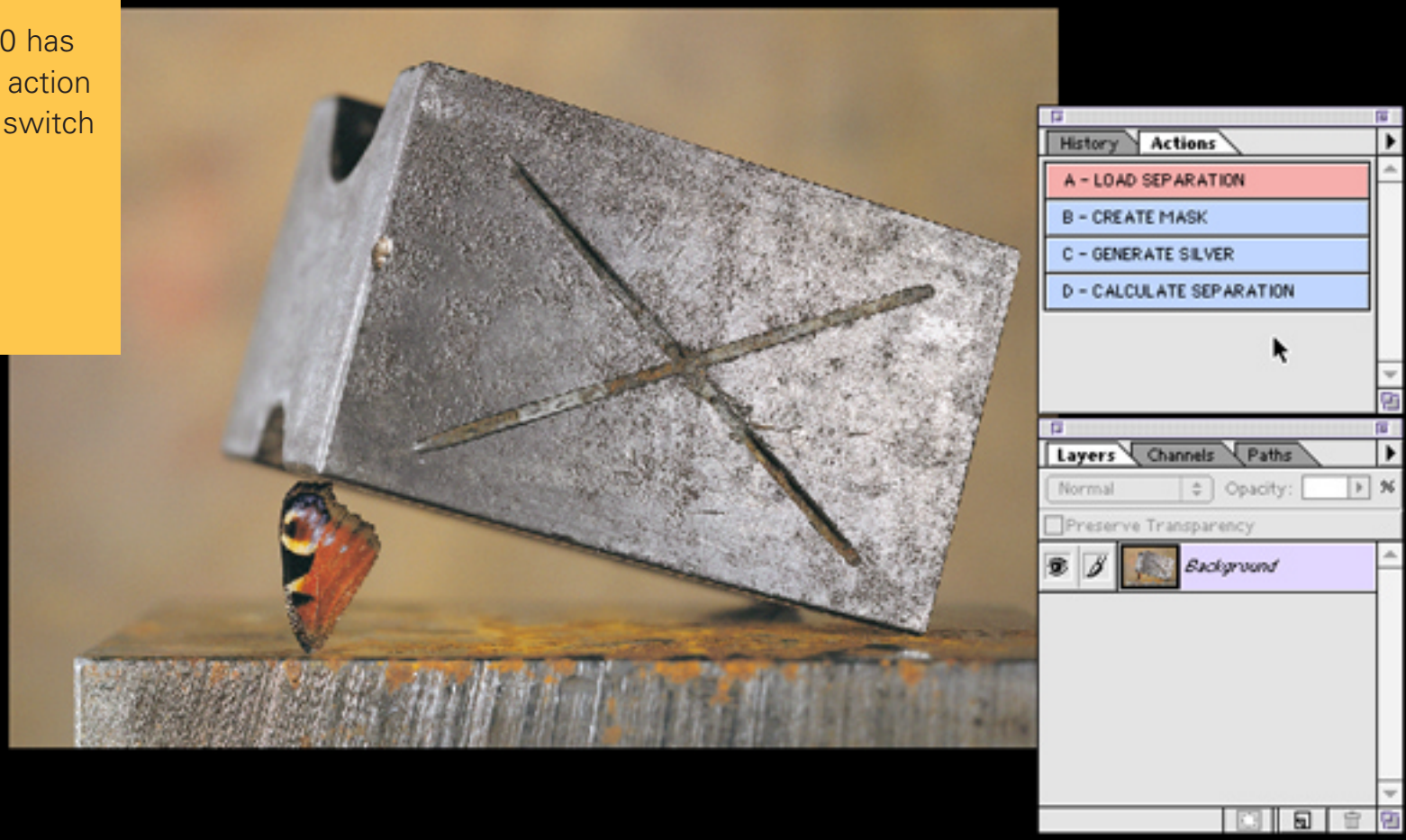
Continue with arrow key



ECKART

Once MIPP2000 has appeared as an action in the window, switch to key mode.

Continue with arrow key

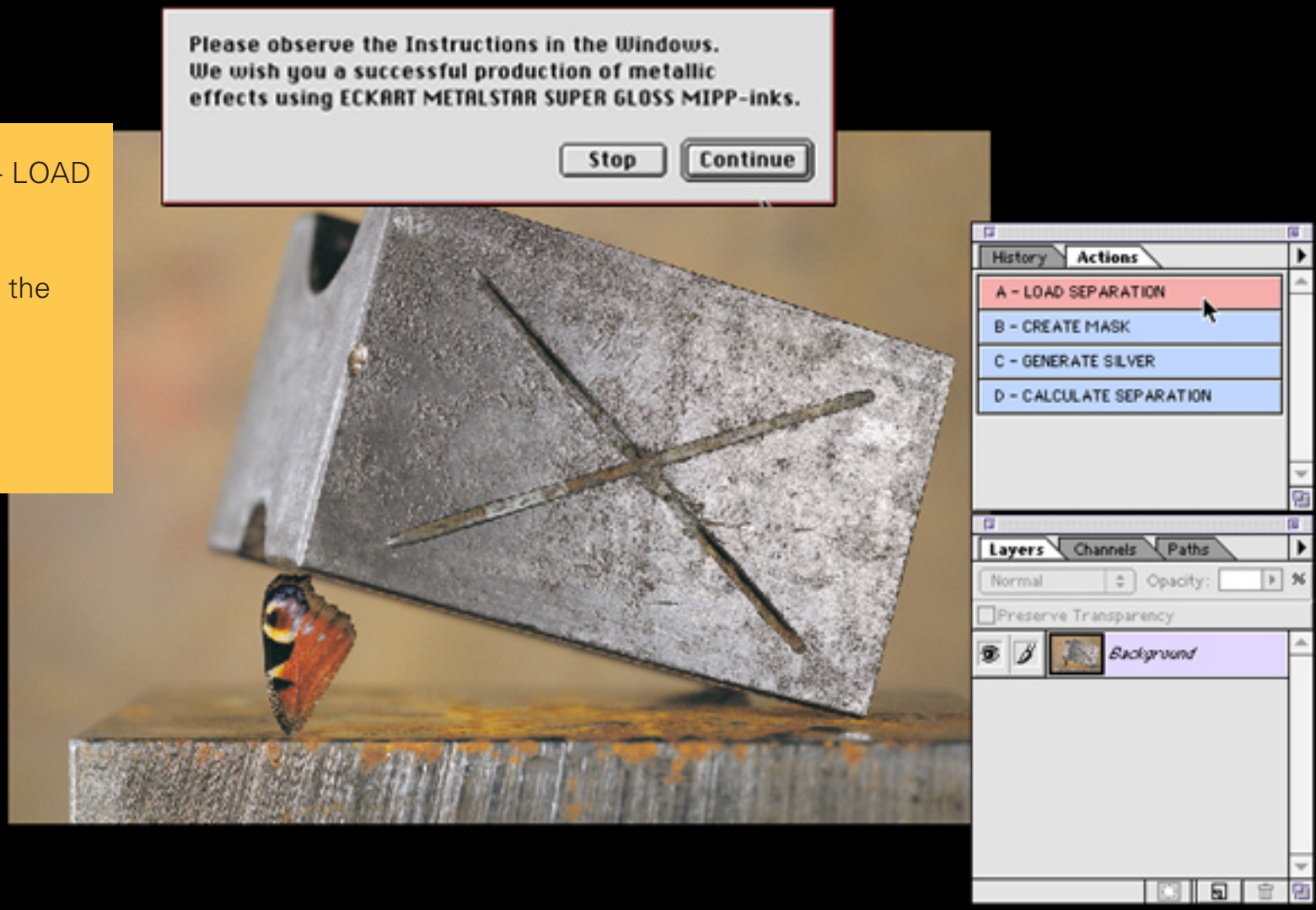


ECKART

Start action "A - LOAD SEPARATION".

Please observe the instructions.

Continue with arrow key

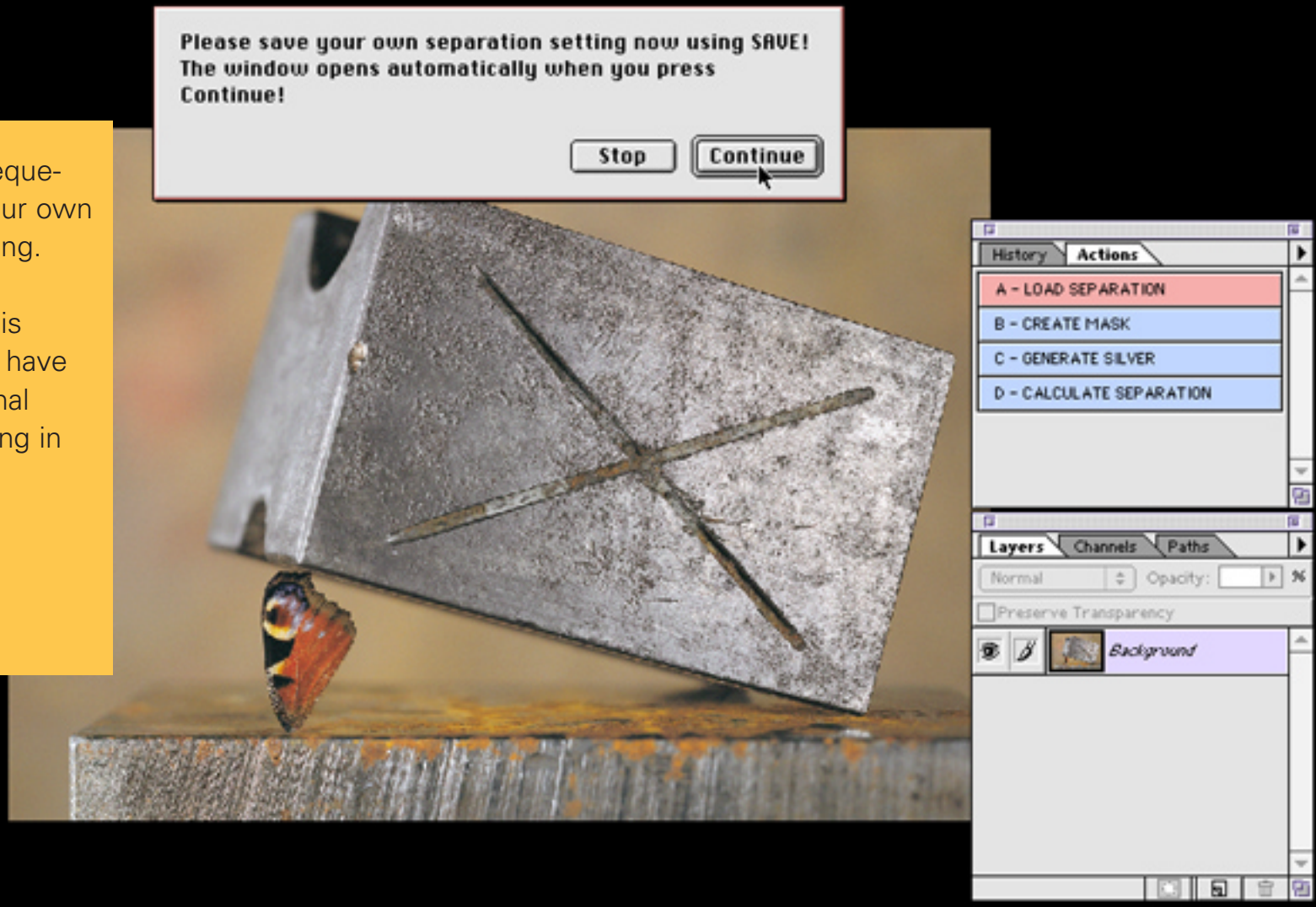


ECKART

Here you are requested to save your own separation setting.

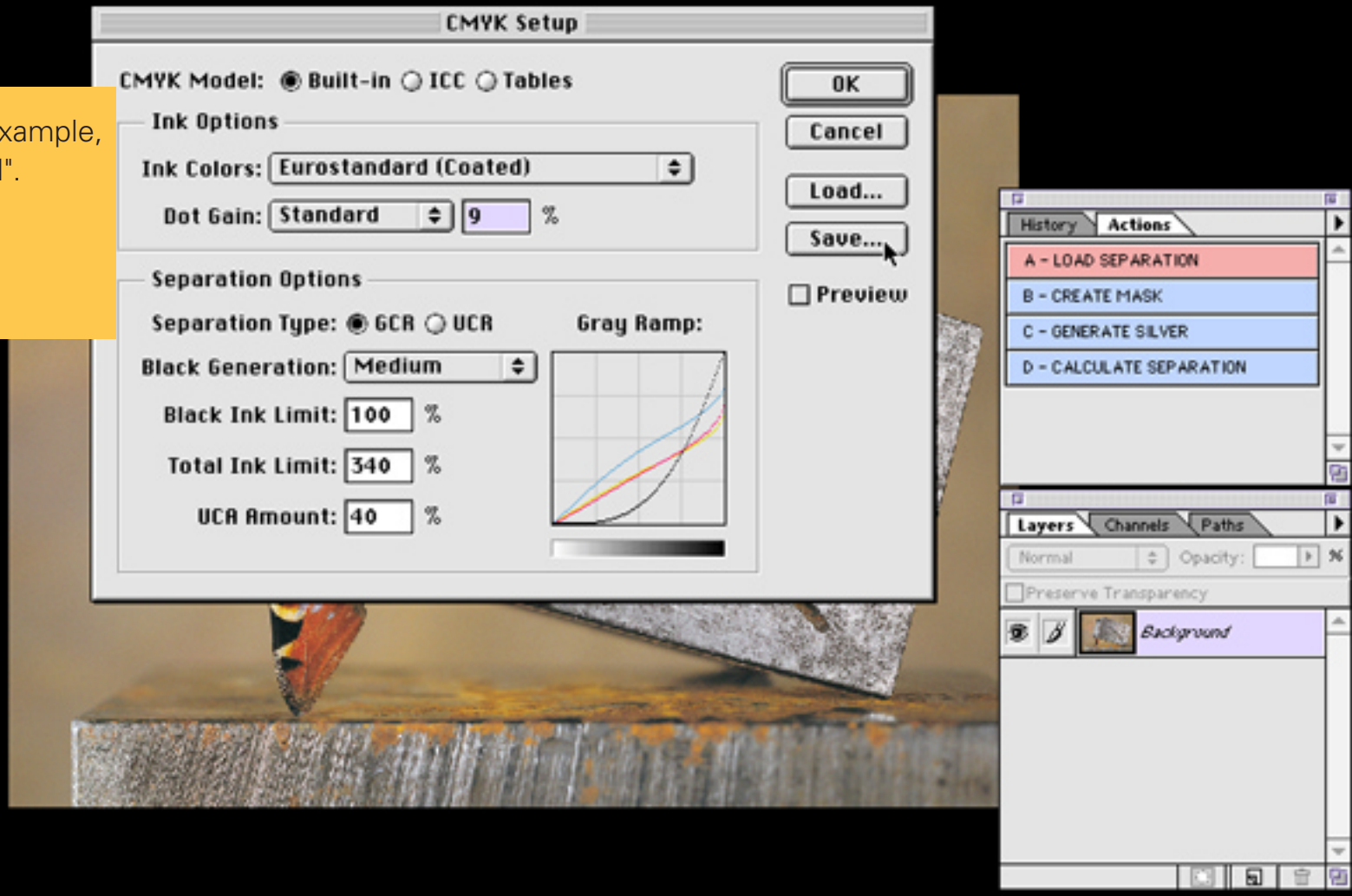
What is meant is the setting you have loaded for normal image processing in Photoshop®.

Continue with arrow key



Save this, for example, as "ownsep.API".

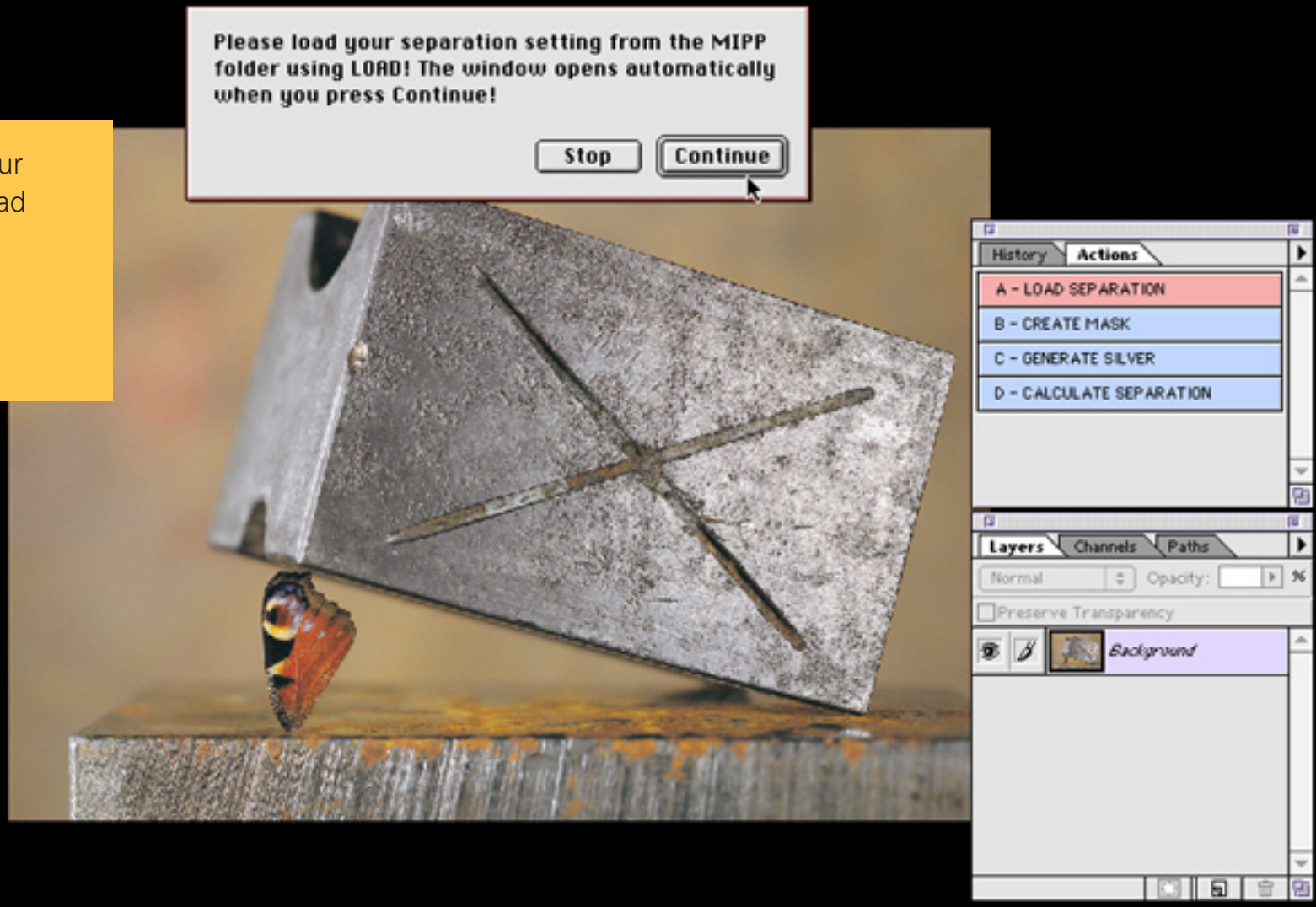
Continue with arrow key



ECKART

After saving your own setting, load "SEP.API".

Continue with arrow key



ECKART

"SEP.API" is located in the MIPP2000 folder.

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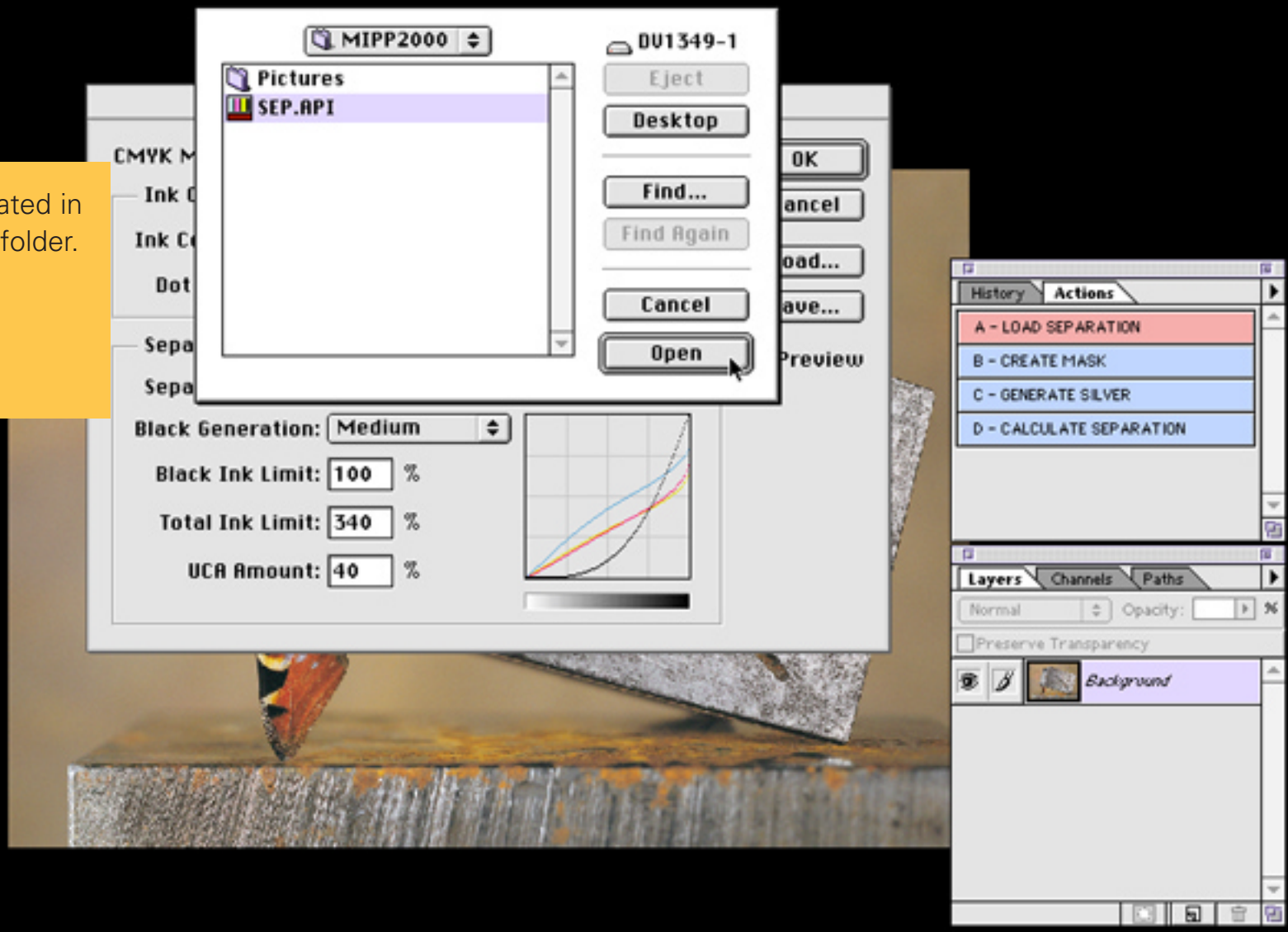
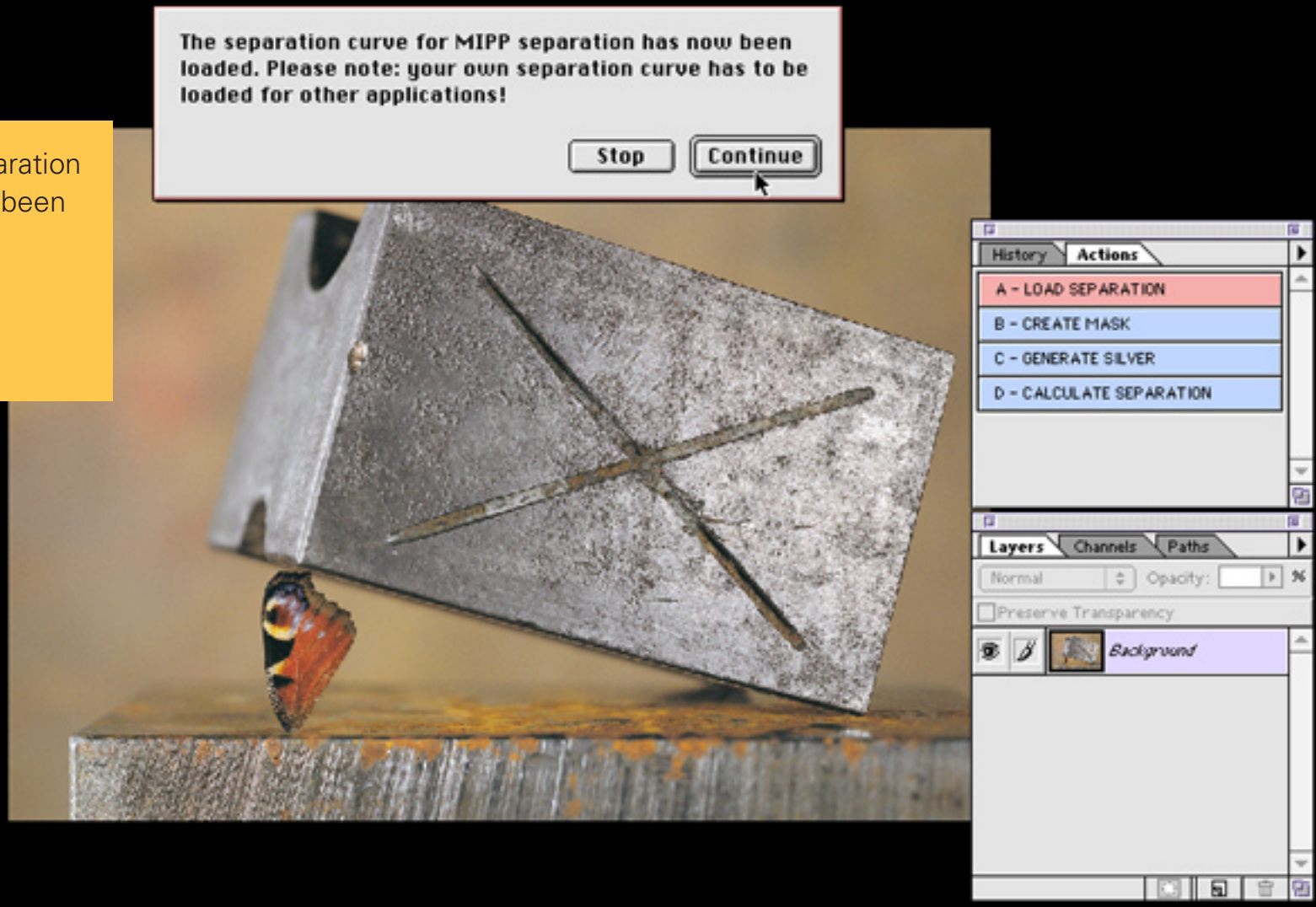


ECKART

Your MIPP separation curve has now been loaded.

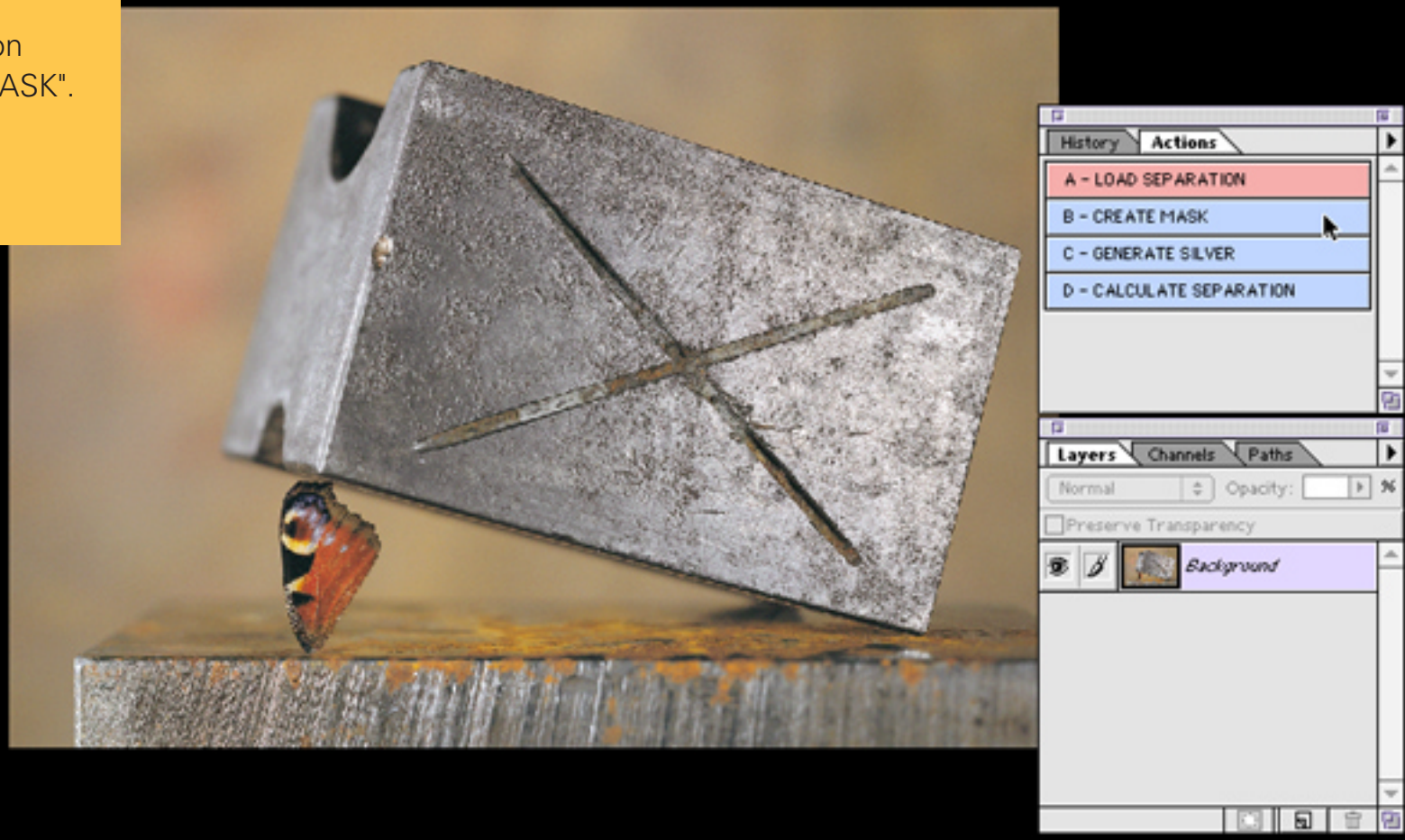
Continue with arrow key



ECKART

Now click button
"B - CREATE MASK".

Continue with
arrow key

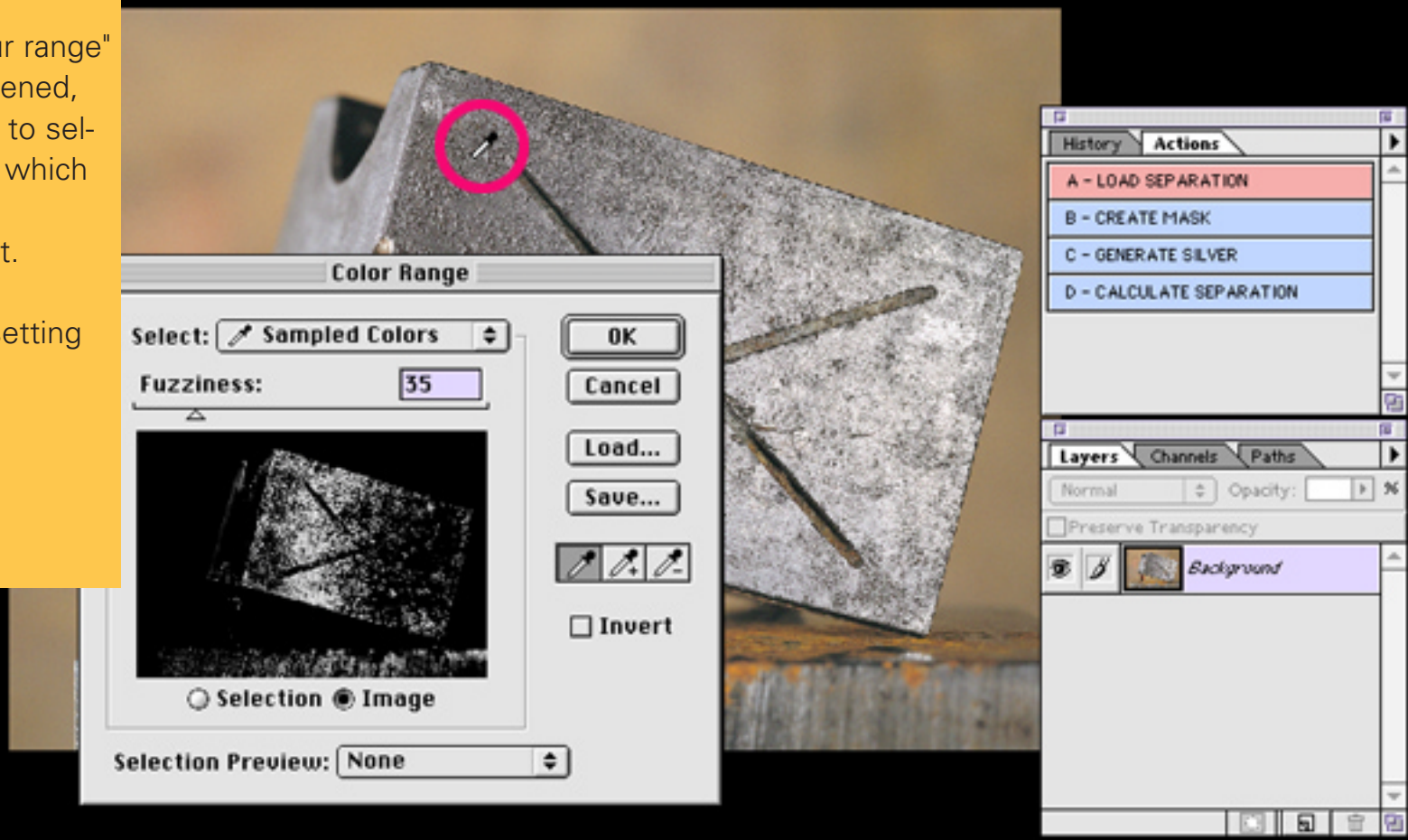


ECKART

After the "colour range" window has opened, use the pipette to select the colours which are to be given a metallic effect.

The fuzziness setting must be "35".

Continue with arrow key

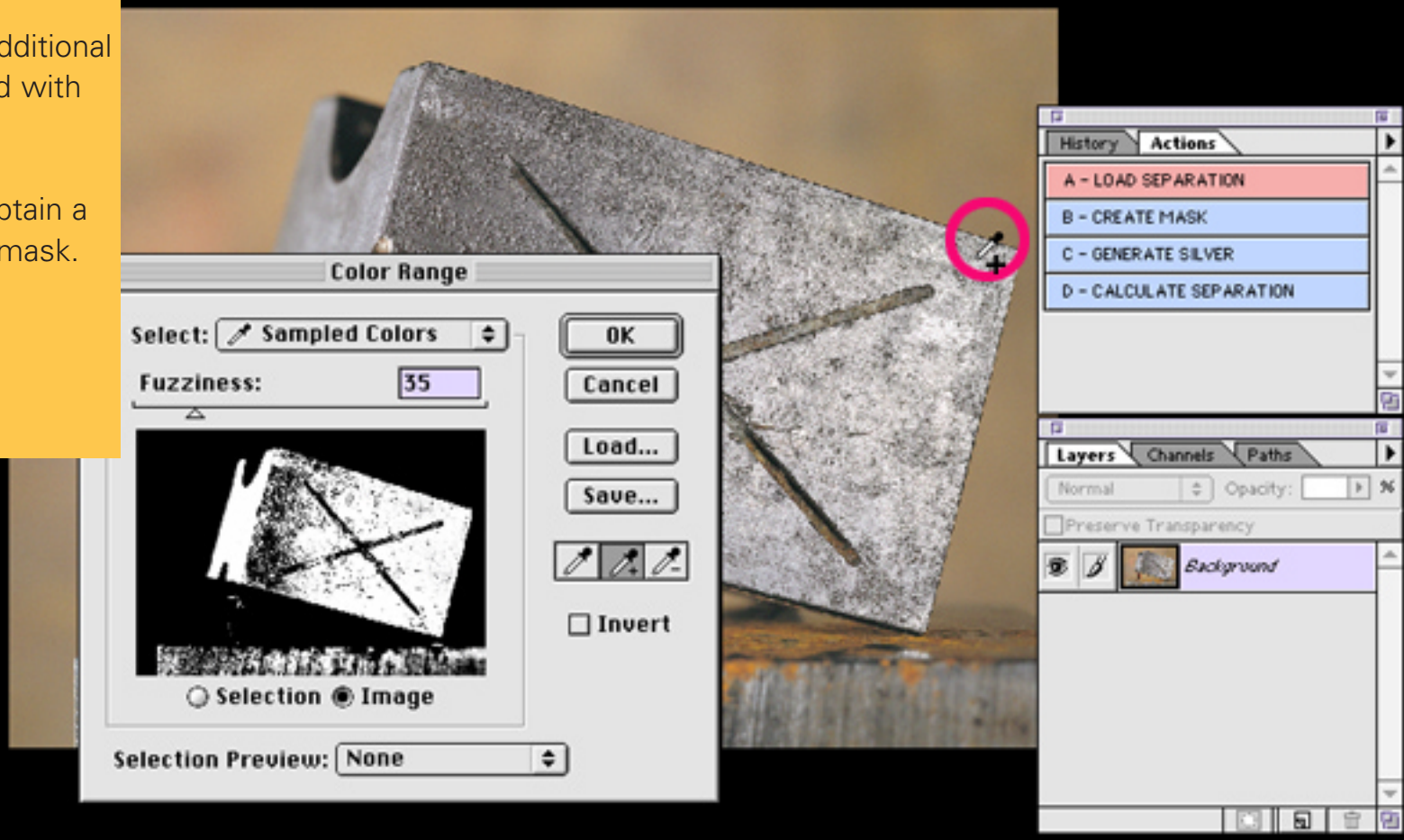


ECKART

Now add any additional colours required with the pipette (+).

The aim is to obtain a homogeneous mask.

Continue with arrow key



ECKART

The mask is now shown so that corrections can be made, if necessary.

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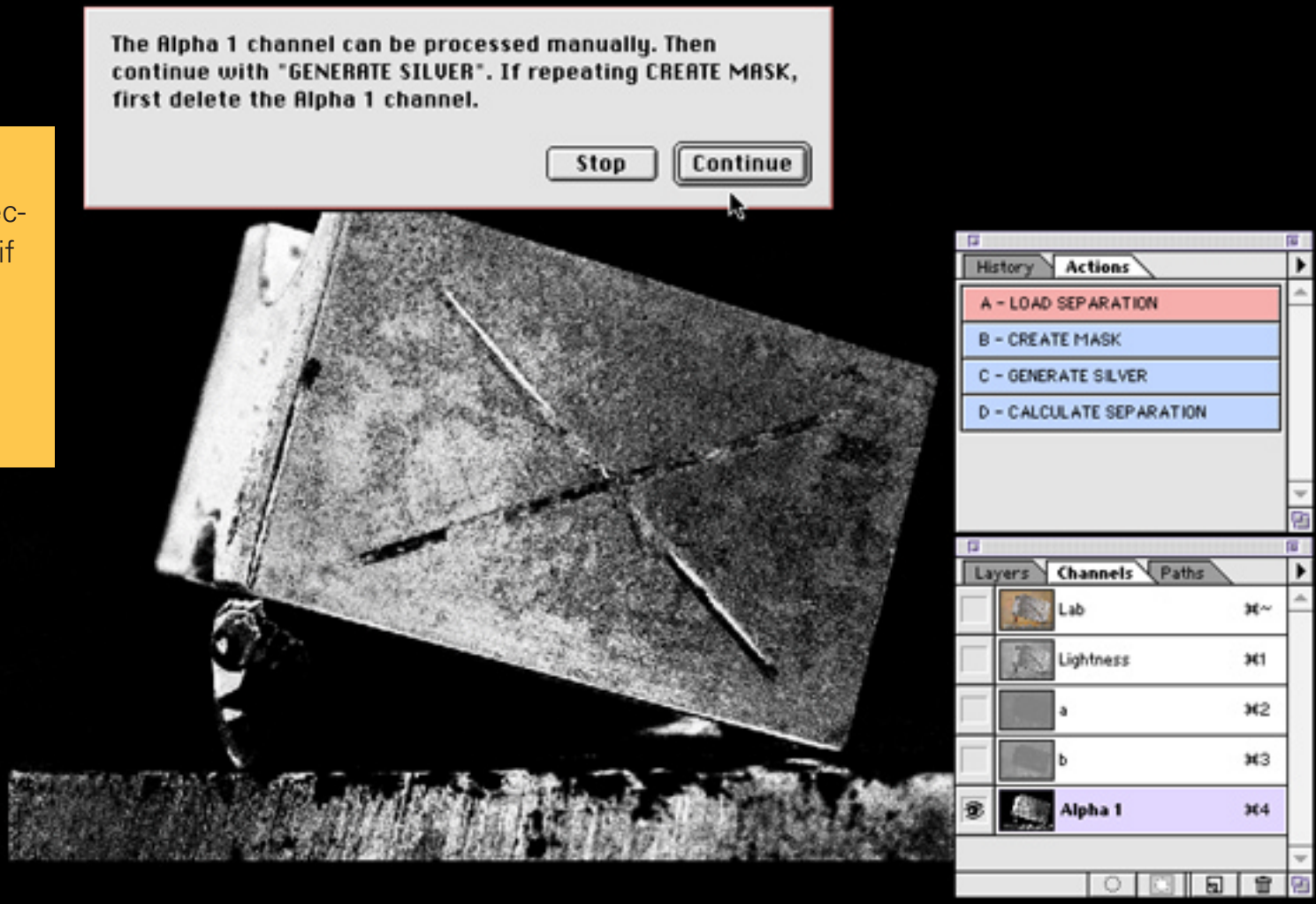
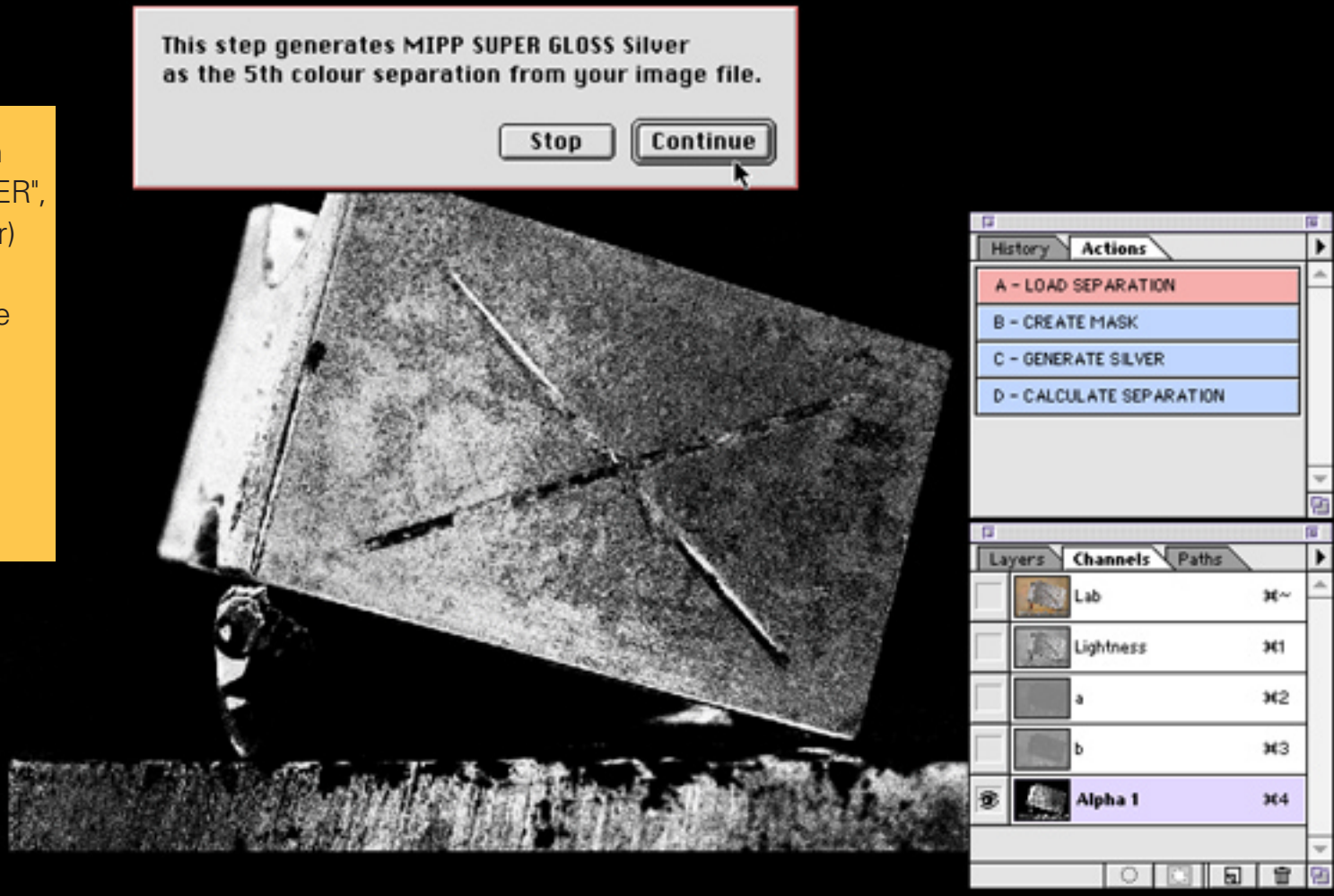


ECKART

After clicking button "C - GENERATE SILVER", the 5th colour (silver) will be generated where the image file has been masked.

Continue with arrow key

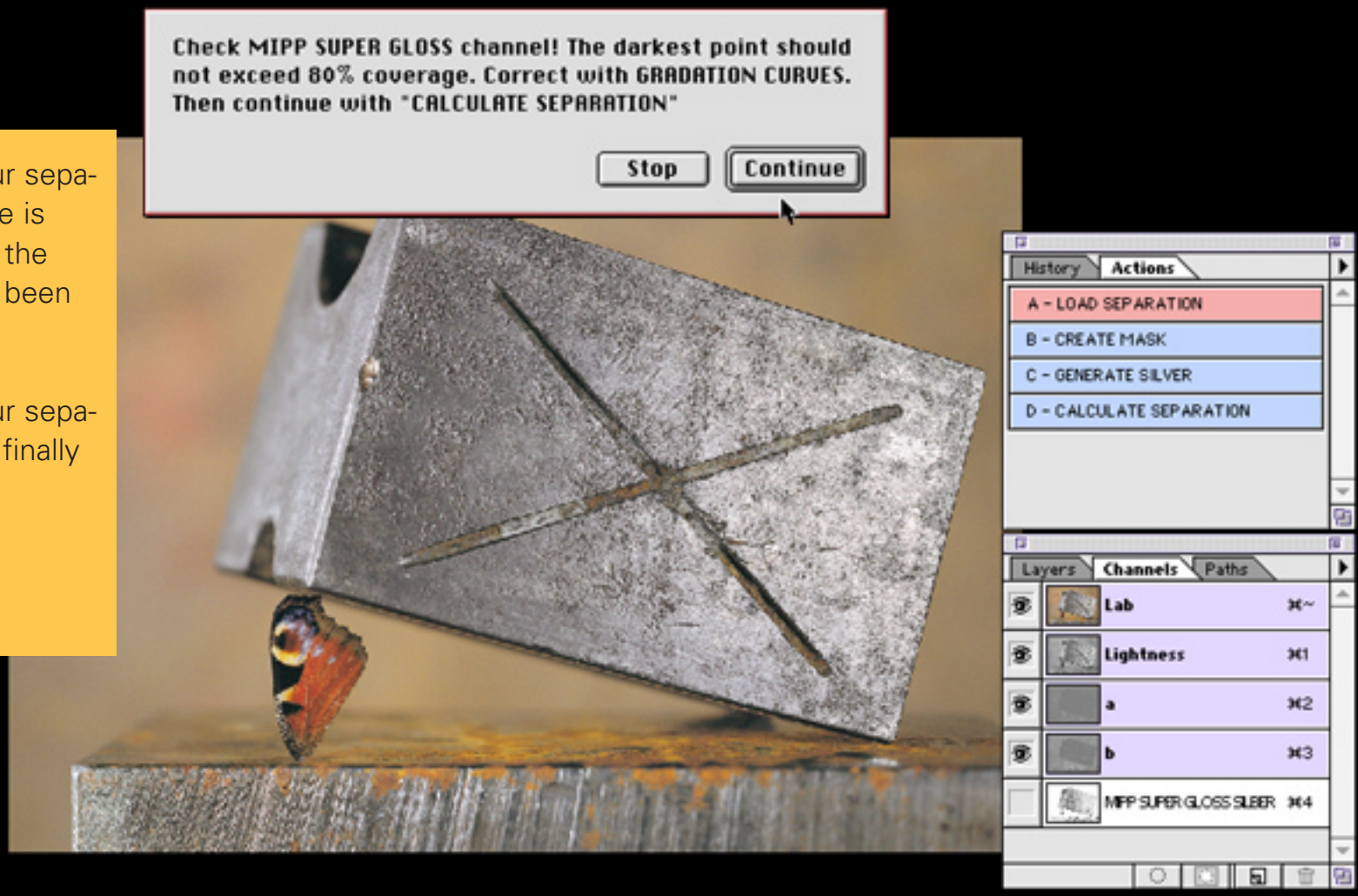


ECKART

The silver colour separation procedure is now ready, but the picture has not been separated yet.

The silver colour separation can now finally be checked.

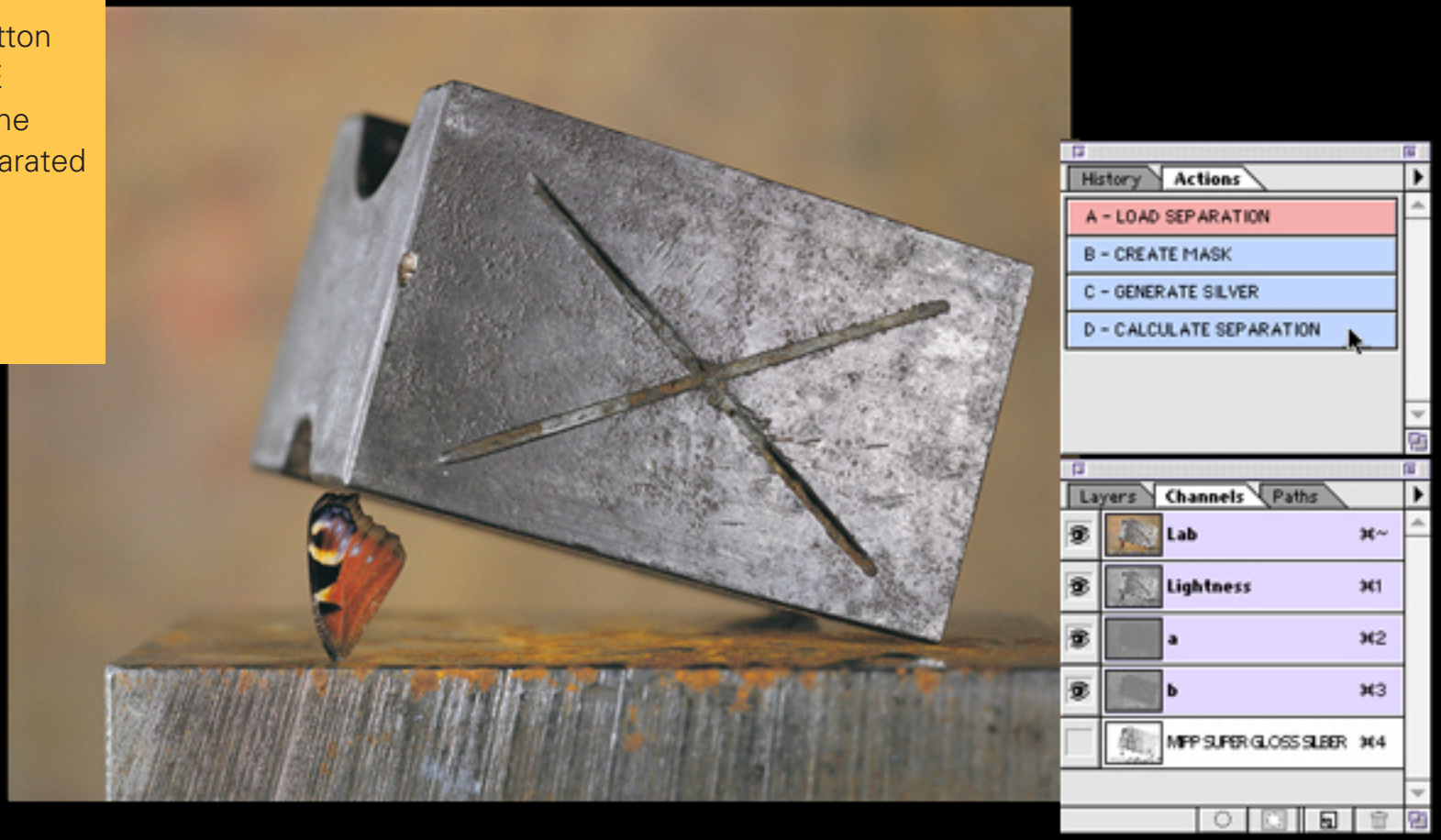
Continue with arrow key



ECKART

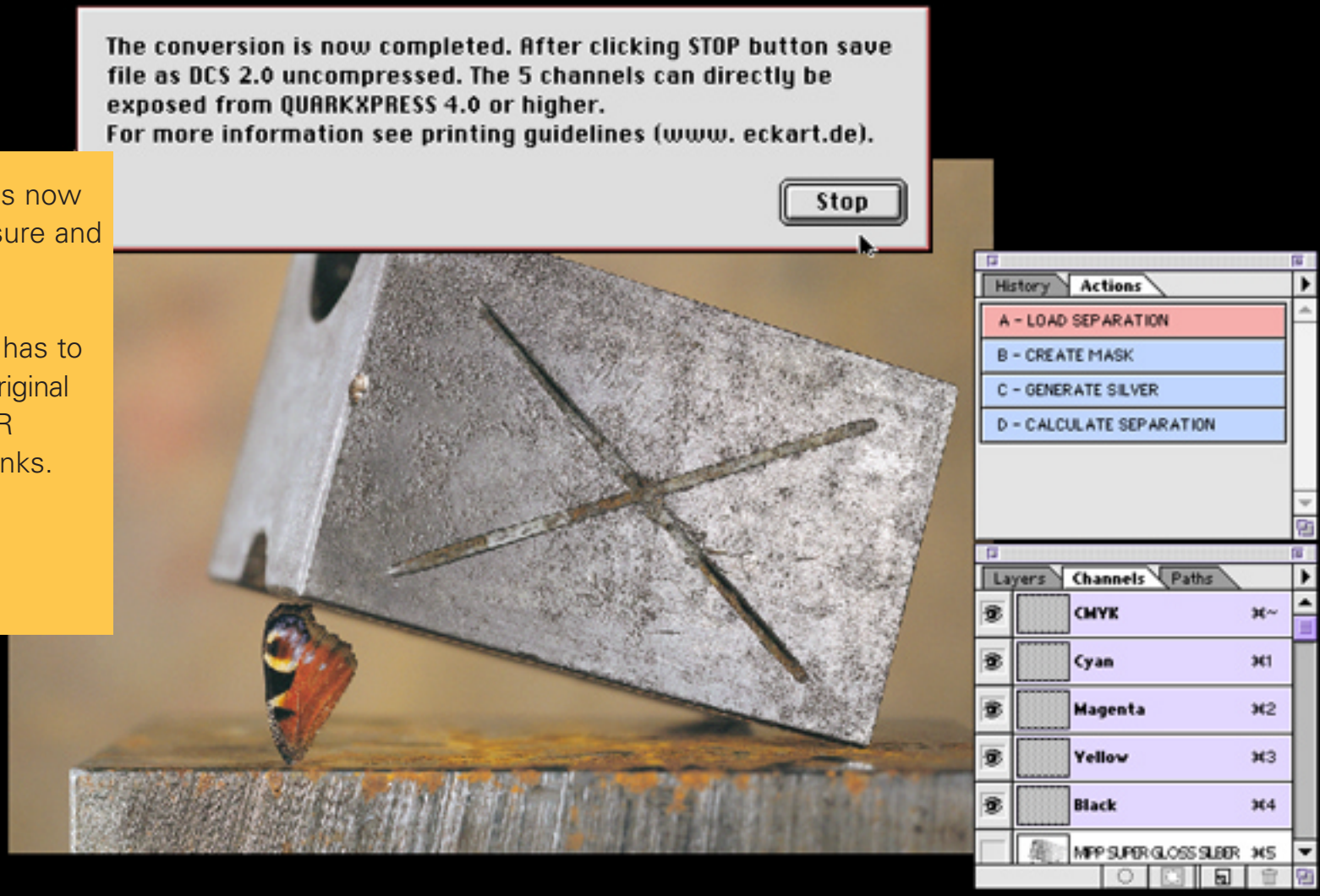
After clicking button "D - CALCULATE SEPARATION", the image file is separated in 5 colours.

Continue with arrow key



ECKART

The image file is now ready for exposure and proof printing.

The proof print has to be made with original ECKART SUPER GLOSS MIPP® inks.

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