

# DATA SHEET FOR CONTRASTING

Before Using Be Sure to Carefully Read Everything in This Folder



A patented cold chemical process for contrasting linecasting matrices including Ludlow and Fotosetter  
Product of Bayport Chemical Company, Minneapolis, Minn.

## SPEED

Do not try for speed at first. Speed will come with practice

## CLEANING STICKS

Much time can be saved by using enough cleaning sticks to rack up a complete font at a time. In any case at least **two cleaning sticks** are needed to do a satisfactory job. An entire font can be contrasted in about the same time as three or four stickfuls, if a sufficient number of sticks are used. One stick will be drying while others are being processed.

## DRYING TIME

The time varies with atmospheric conditions. Just be sure surfaces are dry as outlined in step by step instructions.

## CLEANING MATRICES

Magic matrix contrasting is a chemical process and it is **absolutely necessary** that the surface to be blackened be completely free of oil, graphite, and other foreign substances. The surface of both old and new mats must be brightened with the clean reference rubber or buffed on a motorized brush before contrasting. Dirt on reference side or in character markers on new or old matrices **must** be removed by scrubbing with the brass brush dipped in Magic Cleaner. Light, unblackened spots will show up on mats that have not been thoroughly degreased.

It is not imperative that all old black be removed from previously contrasted mats. Magic will darken the light colored areas to give a uniform black surface. There will be no build up. The ink, however, must be removed from the reference marks, with cleaner and brass brush or buffer, and the mat faces carefully degreased.

## BLACKENING

When Magic Black is applied, occasionally unblackened spots will remain. These mats have not been properly cleaned or degreased. When this occurs, brighten the area with the reference rubber and reapply Magic Black.



### CONTRASTING

Magic Matrix Contrasting ink is a special formulation, with qualities that balance with the blackening and finishing chemicals, and adheres tightly in the reference marks. Magic Ink **dries quickly** and stays distinct in color.

In applying ink to reference marks on mats these problems may occur. Some dried ink smears may remain on mats, especially for the beginner. Remove smears by dampening a cloth with cleaner and wipe off **quickly**. Follow with **dry** cloth. Avoid scrubbing as it will take off black, due to abrasive action of pigment in ink.

If ink has been allowed to dry on stencil brush, cleaner will promptly remove.

### COLORS OTHER THAN WHITE

Because of rapid drying mix small amounts for immediate use. Oil in color tubes tends to separate from color pigment. Squeeze out excess oil before using on a piece of absorbent paper and mix primary colors in oil to desired shade. Squeeze some Magic White into a bottle cap or other small container. Mix the color into the white, gradually adding small amounts of color, just as a pressman would mix inks. To obtain desired shade use more or less color **but white ink must** be used as a base. Apply as directed in Step 4. The primary colors are supplied in the kit.

### REMOVING INK BETWEEN MATS

In removing any ink that has had time to harden wipe mat edges with a cloth slightly dampened with cleaner. Follow at once with a clean dry cloth.

### APPLYING FINISH

In applying finish **don't mix swabs**. If swabs are mixed a chemical action will take place and **ruin** the black and the finish.

If too much finish is applied mats will adhere slightly, one to the other. Remedy by tilting mats sideways in stick thereby breaking the bond. No further adhesion will occur.

### MATS ARE NOW READY TO BE USED

The finish produced by Magic mat processing obtains maximum hardness and serviceability within 24 hours, depending on temperature and atmospheric conditions, which determine the rate of chemical action. Mats, however, may be placed in service within 10 minutes of completing the contrasting process without injury.

### LUDLOW MATS

Lock Ludlow mats in regular Ludlow stick. Follow same instructions as for linecasting matrices. Finish coat **should not** be applied on Ludlow mats. In other words—omit Step 6.

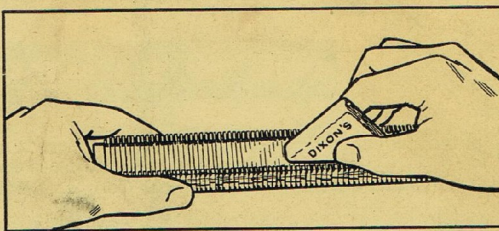
**Step by Step Instructions on Other Side**



# STEP BY STEP INSTRUCTIONS

## Matr. Contrasting

### STEP 1 CLEANING



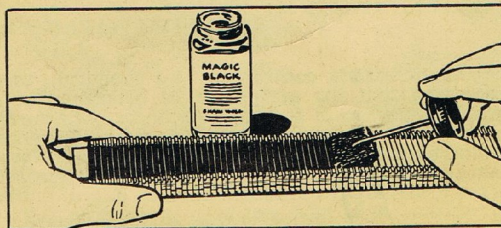
- A—Lock mats tightly in cleaning sticks, placing together quads and leaders and other mats with two character markers. Be sure all mats are seated.
- B—Brighten mats with reference rubber or use a clean motorized brass brush.

### STEP 2 DEGREASING



- A—Pour small amount of **Magic Cleaner** on entire reference surface of mats.
- B—Rub **briskly** with circular motion using brass brush furnished.
- C—Dampen a clean cloth with **Magic Cleaner** and rub entire surface again. (For extremely dirty mats repeat steps A, B, C.)
- D—Rub cleaned surface of mats once over with clean reference rubber

### STEP 3 BLACKENING

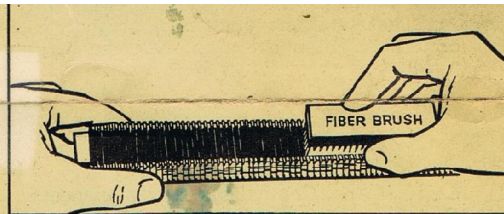


Note—Remember you cannot get a good contrasting job if you have not done a good cleaning job.

- A—Dip swab into **Magic Black** and **squeeze out** dry as possible against top of bottle.
- B—Apply chemical to mats in stick with swab, rubbing back and forth until desired black is produced.
- C—Daub off excess chemical with a clean, dry cloth, but **don't rub**.
- D—Allow 15 minutes drying time.

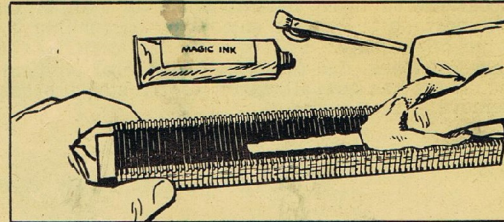


**BRUSHING  
BLACK**



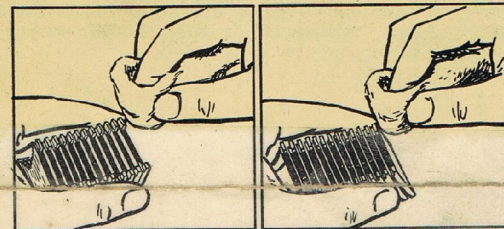
**E**—Brush **briskly** surface of mats to a gloss with fiber brush or use a motorized soft Tampico wheel. Mats must be dry before brushing.

**STEP 4  
CONTRASTING**



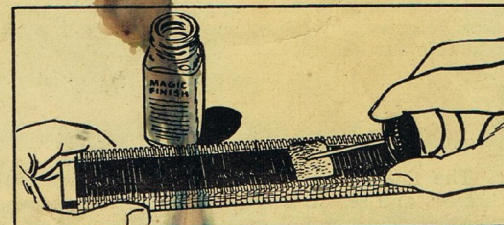
**A**—Squeeze ink from tube directly onto stencil brush.  
**B**—Apply ink to reference marks 3 to 4 inches at a time.  
**C**—Promptly remove excess ink from each section as applied.  
Note—Use a clean, dry cloth and wipe the long way of the stick. (Caution—**don't rub.**)

**STEP 5  
REMOVE INK  
BETWEEN MATS**



**A**—Remove as many mats from the stick as you can handle between thumb and index finger.  
**B**—Tilt mats to left and wipe ink from exposed edges.  
**C**—Tilt to right and do same.  
**D**—Repeat this process until all mats from stick are wiped.  
**E**—Relock mats in stick.

**STEP 6  
APPLY  
MAGIC FINISH**



Note—Two identical swabs are supplied with each kit; one for Magic Black, one for Magic Finish. After first use keep each swab for its own purpose, **do not interchange.**  
**A**—Dip **second swab** into Magic Finish and **squeeze out** dry as possible against top of bottle.  
**B**—Start at one end of stick and draw swab slowly across black surface of mats (once only). A thin film of finish is desirable.  
**C**—Allow to dry 10 minutes.  
**D**—Clean lugs and ears of mats thoroughly before replacing in machine.

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