

## Capatch Volume Test Strips "dark blue"

for determining the water transport volume of Anilox, Rotogravure and Coating Screen Rollers (Chamber Knife Systems)

### Use:

For testing the actual water scoop volume (g/m<sup>2</sup>) of screen rollers.

Prevents production losses.

After cleaning of the screen roller the water scoop volume (g/m<sup>2</sup>) can be verified with the help of the Volume Test Strips.

### Scales:

5 to 25 cm<sup>3</sup>/m<sup>2</sup> and 3 to 15 BCM/inch<sup>2</sup>

(Units of BCM/inch<sup>2</sup> are used in the USA while cm<sup>3</sup>/m<sup>2</sup> are used in the rest of the world.)

For rollers with many lines or with "sensitive" surface we recommend to use **Capatch Volume Test Strips "light blue"**.

### Description:

With time, caked-on coating particles and other impurities can concentrate in the cells of the rollers.

This may lead to a reduced amount of coating application as well as to reduced gloss and insufficient rub resistance.

With these Volume Test Strips it is possible to determine the actual water scoop volume (g/m<sup>2</sup>) of screen rollers and consequently the wet application amount of the coating.

For cleaning of anilox and screen rollers we recommend to use **VEGRA Special Cleaning Agent for Screen Rollers VP 9735** or **VOC-free VEGRA Cleaner for Screen Rollers 220 600 GREEN**

The combination of Volume Test Strips and **VP 9735** or **220 600 GREEN** allows to determine within a very short time whether your screen roller still possesses its full volume or whether the full capacity should be restored in a simple and quick way by cleaning with **VP 9735** or **220 600 GREEN** and subsequent measuring with the Volume Test Strips.

**Please take note of the Instructions for the use of Volume Test Strips.**

### Packing:

Boxes with 24 strips

The specifications given in this brochure are based on laboratory tests and practical experience. All specifications are to the best of our knowledge and reflect the latest state of the art, however, this does not imply any liability.

13 December 2006 - 001/lh



## Volume Test Strips for Anilox and Coating Screen Rollers

Volume Test Strips for Anilox and Coating Screen Rollers

## Instructions for the use of Volume Test Strips

### Step 1

Peel off the protection backing of the test strip making sure to leave it attached to the test strip. You will later use this attachment to remove the test strip from the roll.



### Step 2

The blue, green or red squares show where glue patches are located. Place the square at the top of the test strip against the roll. Take the bottom square or the backing and stretch the test strip downwards and place the bottom square against the anilox roll, ensuring that it is properly attached without any wrinkles in the plastic foil and without trapping air between the foil and the roll.



### Step 3

Take the doctor blade and put the index finger on the arrow of the doctor blade. Please note that the edge of the doctor blade is sharp in order to doctor the roll properly. Keep the angle of your doctor blade roughly 45 degrees to the anilox roll at all times while doctoring.



Start below the marked arrow on the test strip, squeeze the indicator fluid from the capsule along the scale printed on the test strip, moving in a slow tempo but with a firm press from the index finger (not the thumb) on the doctor blade. A slow tempo is needed to allow the indicator fluid to penetrate the cells bit by bit. Repeat this at least three times until there is no more visible movement of indicator fluid.

Then use the left or right side, meaning moving the doctor blade arrow to the left or to the right of the arrow on the capsule, to squeeze the rest of the indicator fluid out of the capsule; this is typically at least 10 percent of the fluid, although it may not be easily visible in the capsule. Be aware that a layer of indicator fluid accumulates between the anilox roll and the test strip foil which is not in the cells, therefore repeat sharp doctoring on the rolls to make sure that ALL the indicator fluid has been pushed from the capsule and between the foil and the roll into the cells of the roll. Remember that the test strip is calibrated on 100% of the indicator fluid leaving the capsule. Be aware that there is only a very little drop of indicator fluid in the capsule and if you leave 10 percent of the little drop of indicator fluid behind in the capsule AND you leave 10 percent behind between the foil and the roll, the reading will result in a 20 percent error with the volume 20 percent too large.

#### Step 4

Read the result.

Does the width of the stain have some effect on the volume measurement?

Due to the properties of the indicator fluid, the width of the stain has no significant effect on the measurements and on the tolerance of plus or minus 10 percent. Several tests have proven this. The speed of the plastic doctor blade does have effect on the measurement results. Faster blade motion causes the stain to elongate somewhat, and less cell volume will be indicated.



### Step 5

Immediately remove the test strip by tugging gently on the backing. The longer the test strip remains on the roller, the more difficult it will be to clean the roller afterwards.



### Step 6

Always clean the roll directly after making a measurement. It might occur that you see traces of non-permanent glue on the roll.

For cleaning we recommend to use **VEGRA Special Cleaning Agent for Screen Rollers VP 9735** or the **VOC free VEGRA Cleaner for Screen Rollers 220 600 GREEN**

