



TECHNICAL DATA SHEET

SHORT DESCRIPTION:

The Saatiprint 21 Step Sensitivity Guide is an emulsion exposure calculator. This simple, re-usable guide will fine-tune your exposure times so you can avoid both under-exposure and over-exposure problems.

BENEFITS:

- Image area will wash out with better detail.
- Less trouble on-press as under-exposed emulsion may break down or even lock into the screen mesh.
- Prevent reclaiming problems as under-exposed emulsion is much more difficult to reclaim after it has been printed with and cleaned with solvents.
- You can tape it to the exposure glass and use it with every screen you expose.

DIRECTIONS:

Place the Saati 21 Step Sensitivity Guide on the screen. Optimize your exposure so that when washing out the image, you are left with 7 solid steps.

**Just to clarify, the rectangles at the bottom of the guide such as #20 and #21 should rinse out very easily. #1 through #7 need to remain in the screen. Rinse the out the rectangles with some effort (hard rinse) or you may get a false result.*

Once complete, if you see only 5 steps you run the risk of pinholes or premature breakdown. Using the guide below you will double the exposure time. If you see 9 steps, you will have lost finer detail in the image, and you should halve the exposure time.

EXPOSURE CORRECTION TABLE

To Increase Step Guide By...	Multiply Original Exposure By...
1 Step	1.4
2 Steps	2.0
3 Steps	2.8
4 Steps	4.0



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EXPOSURE CORRECTION TABLE

To Decrease Step Guide By...	Multiply Original Exposure By...
1 Step	0.70
2 Steps	0.50
3 Steps	0.35
4 Steps	0.25

TIPS AND TRICKS:

- Tape the 21 Step Sensitivity Guide down to the exposure glass and leave it there. Now every screen will get the test and you can stop problems before they start.
- If you don't give the guide a "hard rinse", you will not remove all of the rectangles that should have been removed.
- Test every screen mesh. White and dyed screen mesh will have different exposure times. Every different mesh count will also have different exposure times.
- If your screen is not dry when you expose, you may get erratic results. It is not necessarily dry if you can touch the screen and it is not transferring color to your finger. Look for an even color across the entire coated screen.
- A dry screen can re-absorb moisture out of the air. If you properly dried a screen and then take it out of the drying cabinet to sit in a rack, it may not be dry much longer.