PROCOLOUR RESISTAD GUTTA SYSTEM – A NEW GLOBALLY UNIQUE CONCEPT IN GUTTA

Procolour supplies RESISTAD gutta in 3 concentrate forms:

1. THIN RESISTAD 2. MEDIUM RESISTAD 3. THICK RESISTAD

Why bother with concentrates; what's wrong with simple ready to use gutta?

There are two huge advantages that these 3 concentrates offer:

1. All the 3 concentrates can be converted into ready to use guttas by the addition of simple proportions of water, liquid dye or fabric paint**. This gives painters the ability to make any type of gutta from just these 3 concentrates.** Let's demonstrate this great range of choice:

   Wanted, a metalic gold gutta – make it by mixing 1 part THIN RESISTAD + 4 parts gold textile paint. Usig this recipe, THIN RESISTAD converts most water based textile paints into guttas.

   Wanted, a screen printable black gutta that does not impair the softness of the silk – make it by mixing 1 part THICK RESISTAD + 1 part black liquid dye. Using this recipe, THICK RESISTAD converts most liquid dyes, or water, into screen printable viscosity guttas.

   Wanted, a pastel red gutta for hand pipette application that does not impair the softness of the silk – make it by mixing 1 part MEDIUM RESISTAD + 1 part dilute red dye. Using this recipe, MEDIUM RESISTAD converts most liquid dyes, or water, into guttas of suitable viscosity for hand pipette application, brush painting, stamping, and block printing.

   So from the 3 Resistad concentrates it is possible to simply make any colour of gutta, any viscosity, textile paint, water or dye based. Such a range of gutta possibilities has never before been so conveniently on hand.

2. **Because Resistad is in concentrate form, and therefore lightweight, considerable freight savings can be made** especially by those Procolour customers living outside New Zealand.

THE 3 RESISTAD CONCENTRATES ARE MADE INTO APPLICATION STRENGTH GUTTAS USING THE FOLLOWING 3 RECIPES:

1. THIN RESISTAD

Recipe: 4 parts TEXTILE PAINT + 1 part THIN RESISTAD (80/20)

- THIN RESISTAD CONTAINS NO THICKENER
- IT IS MOSTLY USED FOR CONVERTING TEXTILE PAINTS INTO GUTTAS

  Most popular are metallic paint guttas and black paint gutta. These guttas are suitable for all application methods. However, screen printing and pipette extrusion are the most popular.

  The drawback of textile paint based guttas is that if they are applied in such a way that they cover large areas of the silk, then they stiffen it slightly and also impair the natural lustre of the silk. However, they are very good for fine line designs and have an excellent resist performance.

2. MEDIUM RESISTAD

Recipe: 1 part LIQUID STEAMFIX DYE OR WATER + 1 part MEDIUM RESISTAD (50/50)

- MEDIUM RESISTAD CONTAINS THICKENERS WHICH MAKE MEDIUM VISCOSITY GUTTAS SUITABLE FOR: HAND PIPETTE EXTRUSION, BLOCK PRINTING, STAMPING, SPONGING

- IT IS USED FOR CONVERTING STEAMFIX LIQUID DYES AND PLAIN WATER INTO GUTTAS (dye-coloured, full strength or pastel, and clear). DON'T USE MEDIUM RESISTAD TO MAKE TEXTILE PAINT GUTTAS.
  Guttas made with Medium Resistad give a viscosity suitable for: pipette extrusion, block printing, stamping, sponging, ragging etc. and brush painting.
  The advantage of this gutta is that coverage of large areas of silk does not result in impairment to the silk's softness or lustre. It has a very good resist performance.

3. THICK RESISTAD

Recipe: I part LIQUID STEAMFIX DYE OR WATER + 1 part THICK RESISTAD (50/50)

- THICK RESISTAD CONTAINS THICKENER WHICH MAKE THICK VISCOSITY GUTTA
- IT IS USED FOR CONVERTING STEAMFIX LIQUID DYES AND PLAIN WATER INTO GUTTAS (dye-coloured, full strength or pastel, and clear). DON'T USE THICK RESISTAD TO MAKE TEXTILE PAINT GUTTAS
  Guttas made with Thick Resistad give a viscosity suitable for screen printing. When this gutta is applied in big blotches it does not impair the softness, drape or lustre of the silk. It also has a very good resist performance.

As well as the 3 RESISTAD GUTTA CONCENTRATES, Procolour supplies 4 pre-mixed ready-to-use paint based guttas:
METALLIC WHITE PEARL, METALLIC GOLD, METALLIC SILVER AND BLACK. The pricings for these guttas are found in Table I.

ATTRIBUTES OF PROCOLOUR GUTTAS

- All are water based so application utensils wash up in water. All gutta designs require heatsetting prior to being coloured in with dye. This is an extra compulsory step not encountered when using other brands of guttas on the market. Heatsetting activates the gutta's water repellency transforming it from water miscible to water resistant.
- Medium and thick resistad guttas do not impair the lustre or softness of the silk, so gutta outlines can be as broad as you like without effecting the silk's natural drape or shine.
- All guttas (of correct viscosity) are screen printable and compatible with the RISO SCREEN PRINTING SYSTEM. Printing the gutta makes it viable to do many copies of even sophisticated designs which would normally be beyond the scope of any hand pipette extrusion techniques. For example,

  - Imagine if you had an order for 100 scarves with a sophisticated full colour company logo on each of them. With screen printable gutta, you can tackle such an order confidently.
  - With this gutta system, you can exactly copy copyright free designs, eg. clip art and designs from the DOVER books etc.
  - Souvenir apparel usually needs to be decorated with nationally iconic imagery. Now you can do this in full colour.
  - Ponder the possibilities of this tool for your silk painting income as well as the ways it can expand your creativity.

USAGE PROCEDURE FOR ALL PROCOLOUR GUTTAS:

1. If in concentrate form, make the application strength gutta up according to the RESISTAD recipes given above. Allow 1/2 hour for MEDIUM and THICK RESISTAD guttas to evenly thicken before use.

2. **Apply** the gutta to the silk ensuring that it penetrates right through to the backside of the fabric throughout the entire length of the gutta outlines.

3. **Dry** the gutta design naturally or if the detail is losing sharpness then rapid-dry with a blow heater or hairdryer.

4. **Heatset** the gutta design in the following ways (in diminishing order of heat setting efficiency)
   - By ironing or baking in the oven or in a commercial textile paint infra-red heat-set tunnel or a heat press etc. (150° C for 2 mins is recommended).
   - Or leaving at close range in front of a blow heater on high for 20 mins.
   - Or leaving for 24 hrs in a warm place.

5. **Colour in** the gutta design with dye.

6. **Fix** the painting according to the requirements of the dye that's been used to colour in the gutta design.

7. **Rinse** simply in plenty of warm soapy water or if optimum results are required then follow 'The Professional Rinse and Finishing Procedure' given on page 9, C. Steamfix Advanced Usage Procedure.

NOTES ON RESISTAD GUTTAS:

- **Don't mix hot dye, water or textile paint with Resistad** or it will spoil. Allow additives to cool before adding Resistad.

- **When mixing dyes with medium or thick Resistad, if the mixture is not thickening properly** usually this is caused by too much methylated spirits in the dye. Reduce or eliminate meths from the dye.

- **All Resistad guttas can be thinned with up to 10% water**. Textile paint-based guttas only can be more seriously thinned by adding PAINT THINNER (available from PROCOLOUR) little by little and mixing it in thoroughly.

- **Medium and thick Resistad guttas can be thickened** by adding extra Resistad concentrate.
- **Textile paint based guttas can be thickened** usually by the following procedure:
  -Mix into the gutta up to 1% CLOUDY AMMONIA (available from the supermarket) to increase the pH to about 8;
  -Mix in 0.25-0.5% of PAINT THICKENER into the pH 8 paint-based gutta.

- If both dye-coloured and textile paint guttas are to be used together in areas where the guttas overlap, then it is important that the textile paint gutta is applied first and therefore can grip clean fabric unobstructed by dye-coloured gutta. Textile paints rely on adherence for their permanence.

- **The efficiency of the heatsetting of Resistad guttas (step 4 above) determines the resistivity of the gutta**. If the gutta has been given optimum heatsetting, then it will shrug off dye almost as well as wax does. Overpainted dye will bead up on top of well heatset gutta where it can be dabbed dry with a cotton bud. However, if the heatsetting is mediocre, then the gutta can be overpainted with dye and it will behave more like an antifusant towards the dye. So the way that the gutta behaves towards overpainted dye is determined by the amount of heatsetting that the gutta has undergone and this can be controlled to suit one's creative needs.

If any further gutta usage info is required, it will probably be covered in:

C. STEAMFIX LIQUID DYE ADVANCED USAGE PROCEDURE
TECH. INFO. SH. 2: GUTTA PROBLEMS AND SOLUTIONS
TECH. INFO. SH. 5: SCREENPRINTING THICK GUTTAS
TECH. INFO. SH. 6: POLYCHROMATIC GUTTA WORK

PRODUCT	50 g	100 g	250 g	500 g	1 kg	5 kg
LIQUID DYES Steamfix, Heatfix and Selffix liquid dyes			12.00	20.00	35.00	
POWDER DYES Steamfix and Heatfix powders, (each colour is a different price, see Table III)						
Selffix powders, (all colours are the same price)	(30-50g) 18.00	30.00	65.00	120.00		
DYE AUXILIARIES Acetic Acid 50 % strength			4.50	6.50	10.00	30.00
Urea				3.00	5.00	20.00
Diffusant			9.00	15.00	25.00	
Leveller			5.00	7.00	12.00	
Dyesolve®			10.00	17.00	30.00	
Heatfix Medium				4.00	6.00	28.00
Soda Ash				3.00	4.00	18.00
Dye Thickener	7.00		16.00	30.00	55.00	
Guar Thickener	8.00		19.00	35.00	65.00	
RINSE AUXILIARIES Stainguard®			6.00	10.00	18.00	90.00
Rinsefix®			7.00	13.00	23.00	105.00
Aquaproof®	5.00 (50 ml)		9.00 (250 ml)	16.00 (500 ml)	30.00 (1l)	140.00 (5l)
GUTTA RESISTS RESISTAD® concentrate thin	10.00		28.00	50.00	95.00	
medium thick	9.00		26.00	45.00	84.00	
METALLIC PAINT GUTTAS gold, silver, white pearl	15.00		40.00	75.00	140.00	
Black paint gutta	14.00		35.00	65.00	120.00	
Paint thickener	12.00		30.00	55.00	100.00	
Paint thinner	5.00		8.00	12.00	20.00	
Gutta Pipettes (bottle plus stainless steel nib – fine, medium or broad)	6.00 ea					
Syringes for liquid measurement (10 ml or 60 ml)	5.00 ea					
Transfer pipettes for liquid measurement (3 ml)	2.00 for 5					