

UWTSD PRINTED TEXTILE WORKSHOP & DYE LAB NOTES

The following equations should remind you of how to weigh out each component for your Acid (protein fibres) or Direct dye bath (cellulose fibres). It is also helpful to have a calculator handy.

Dye Powder

$$\frac{0.1 - 5 \% \text{ Depth of shade}}{100} \times \text{weight of dry fabric} = \text{grams of dye powder}$$

Auxiliaries

$$0.05 \times \text{weight of dry fabric} = \text{mls Acetic Acid @ 20\% strength (PROTEIN)}$$

$$0.2 \times \text{weight of dry fabric} = \text{grams of glaubers salt (PROTEIN/ CELLULOSE)}$$

Water

$$50 \times \text{weight of dry fabric} = \text{mls of water}$$

Working measures for

Dye Powder

$$\frac{\text{Depth of shade}}{100} \times \text{dry fabric} = \text{grams of dye powder}$$

Workings for cross dye recipe

Direct dye powder

Acid dye powder

Auxiliaries

$$0.05 \times \text{dry fabric} = \text{mls Acetic Acid @ 20\% strength}$$

$$0.2 \times \text{dry fabric} = \text{grams of glaubers salt}$$

Water

$$50 \times \text{dry fabric} = \text{mls of water}$$

Technique

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Suitable fabrics and fibres

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Method

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Fixation

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Notes

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