

DYES FOR THE BASKET INDUSTRY

PRESENTED

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PRESENTATION OUTLINE

- **Dyes – what are they?**
- **Colour Fastness**
- **Dyes for Straw**
- **Harmful Substances in Dyes and Additives**
- **Companies that Supply Dyes**

Dyes – what are they?

- Dyes are colouring agents used for colouring different articles either in the natural or artificial form. It may be applied with or without the aid of a mordant.
- Dyes can be used to colour fabric, leather, straw, wood, shells and grass.
- They come in the form of powder, grains or liquid and are usually applied in the liquid form



Groups of Dyes

Dyes can be grouped in different ways:

- **Commercial name=name generally used in the market**
- **Chemical composition=elements that go into forming them**
- **Method of application=dyeing process**
- **Extraction method=how do you obtain it**
- **Application fibre=natural or manmade fibre**
- **Source of dye=natural or synthetic**
- **Fastness properties=resistance of colour**

Types of Dyes

Disperse dyes

Acid dyes

Vat dyes

Reactive dyes

Azoic dyes

Basic dyes

Direct dyes

Mordant dyes

Solvent dyes

Sulphur dyes

How do you choose your dye?

The different dyes are used to fulfil particular needs such as

- **Colour required**
- **Intensity required**
- **Fastness required**

Colour Fastness

Colour fastness refers to how resistance the colour it to wards all sorts of influence

- **Rubbing**
- **Light**
- **Washing**
- **Perspiration**
- **Dry cleaning**
- **Bleaching**
- **Ironing**



What Fastness Will be Important for the Basket Weaver?



Fastness for Basket Weavers

- **Rubbing**
- **Light**
- **???**



Other points to consider before Choosing Dyes for Straw

- **What method of application is suitable?**
- **Where will it be sold and what are the standards required in that market in terms of chemicals used?**
- **What is the source of dye?**
- **Do you know the content of the dye?**
- **Is it economical for commercial purposes?**

Types of Dyes that can be used for Straw

- **Disperse dyes**

They are hot water dyes used in the presence of a carrier or dispensing agent in the dyeing process

It has good wash and light fastness. They do not undergo any chemical change during dyeing

- **Direct dyes**

Direct dyes are a class of hot water dyes for use on cellulose fibers. It is used in combination with acid dye for 'all purpose dyes' sold in the market.

They have good lightfastness.

Types of Dyes that can be used for Straw contd.

- **Basic dyes**

Basic dyes are salts, usually chlorides, in which the dyestuff is the basic or positive radical. They are powerful colouring agents and can be applied to various fibres. Usually acetic acid is added to the dyebath to help the take up of the dye onto the fibres.

Harmful Substances in Dyes and Additives

These substances including heavy metals affect the nervous system and are quite cancerous. They are also known to cause vascular diseases, lung and skin diseases. They never leave your body once they get in.

They include

- Formaldehyde**
- Dioxin**
- Mercury,**
- Lead,**
- Cadmium,**
- Copper,**
- Chromium**

Companies that Supply Dyes

Suggestions:

DyStar in Germany

Some dye suppliers to the USA are:-

Hwalle Dyes Company – China

Adcon Colours PVT Ltd and Adhik Chemicals – India

Tennants Textile Colours – UK

Dharma Trading in the USA has been trading in dyes for about 80 years

THANK YOU

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