Worksheet 3: Manufacture and finishing

**Task 1 – Surface treatments and finishes**

Match the definitions to the correct finish or treatment then specify a practical application for each treatment and justify your answer.

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** |  | **Treatment or finish** | **Application** |
| Specialist paper is used to fuse an inkjet printed image on to fabric |  | Stain Protection | **Suggestions for use:**  *Rugs and carpets* |
| **Justification of use:**  *These products are prone to spills and cannot be washed easily* |
| Treatment to form a moisture repelling seal |  | Flame Retardants | **Suggestions for use:** |
| **Justification of use:** |
| Coating which forms a protective barrier to prevent substances from being absorbed into fibres |  | Heat Transfer Print | **Suggestions for use:** |
| **Justification of use:** |
| Use of abrasive rollers to lift fibres and form a nap on the fabric to make it warmer and softer to the touch |  | Waterproofing | **Suggestions for use:** |
| **Justification of use:** |
| Use of a series of rollers to press, iron, emboss or deboss rolls of fabrics |  | Distressing | **Suggestions for use:** |
| **Justification of use:** |
| Treatment to prevent or slow combustion |  | Calendaring | **Suggestions for use:** |
| **Justification of use:** |
| A light resin applied to make ironing and drying faster |  | C:\Users\Rob\AppData\Roaming\PixelMetrics\CaptureWiz\Temp\8.png  Brushing | **Suggestions for use:** |
| **Justification of use:** |
| Chemical or mechanical deterioration of the colour or texture of fibres and fabrics |  | Crease Resistance | **Suggestions for use:** |
| **Justification of use:** |

**Task 2 – Dyeing fabric**

List some of the advantages and disadvantages of dyeing fabric in batches versus dyeing continuously.

|  |  |
| --- | --- |
| **Batch Dyeing** | **Continuous Dyeing** |
|  |  |

**Task 3 – Screen printing**

Study the screen prints below.

How many screens would be required for each print?

|  |  |
| --- | --- |
| Image result for screen print famous |  |
| Number of screens needed: | Number of screens needed: |

Explain the limitations of screen printing?

**Task 4 – Quality control**

Compare the differences between the original sample and Sample 2. Circle any defects.



*Original sample*



*Sample 2*

**Task 5 – Product design**

The curtains below are to be manufactured in a batch of 2500 units. Name and explain suitable manufacturing techniques considering the following:

* + Dyeing
    - Dyed as fibre, yarn, fabric or finished product?
    - How was it dyed – batch or continuous?
  + Method of printing
  + Quality control check for pattern
  + Surface treatment

Make detailed notes and add annotations to the images below:

 