Unit 110: Decorative finishing and industrial painting occupations

# Worksheet 11: Paint materials (tutor)

1. State the two common bases for paints.

Water and oil

1. Using your textbooks to refer to, place a tick next to each type of paint to indicate whether it is available in water based, or oil based.

|  |  |  |
| --- | --- | --- |
| **Paint type** | **Water based** | **Oil based** |
| Primer | X | X |
| Undercoat | X | X |
| Gloss | X | X |
| Satin | X | X |
| Eggshell | X | X |
| Matt emulsion | X |  |
| Silk emulsion | x |  |

1. Place the sheen levels below in their correct order starting with the highest sheen.
2. Eggshell
3. Silk
4. Matt
5. Satin
6. Gloss

E D B A C

1. List the three sheen levels of emulsion paint.

Matt, mid/soft sheen, silk

1. Which of the three sheen levels above do you think will be the easiest one to wipe clean? Explain why you think this is.

Silk as it has more sheen than the other two

1. Using your textbooks or the internet, add the correct type of primer or first coat next to the surface.

|  |  |
| --- | --- |
| **Surface** | **Primer/first coat** |
| Bare softwood | Acrylic primer / wood primer |
| Bare hardwood | Aluminium Primer |
| Interior plaster | Mist coat of matt emulsion |
| Exterior render | Stabilising primer / thinned masonry paint |
| Ferrous metal | Zinc phosphate primer |
| Non-ferrous metal | Any non-ferrous primer |

1. Complete the words:

Primers are part of what is known as a ‘PAINT SYSTEM’ and the first coat on a BARE surface

1. Which of the following statements are incorrect?
2. Water-based paint turns yellow
3. Gloss is classed as a finishing paint
4. Primer is a clear or translucent coating
5. Eggshell can be used on walls
6. Mid sheen is the highest sheen level in eggshell
7. Using your textbooks and the internet, list the three basic ingredients of varnish.

Oil, resin, solvent

1. State below the types of paint you would select to use to decorate the interior walls and woodwork of a large dayroom and corridor in a care home, and the reasons for your choice.

Water-based undercoat, gloss and eggshell which have low odour, quick drying and durability to withstand knocks and frequent cleaning

1. State two advantages and disadvantages of oil-based paint.

Advantages: Durability and deeper sheen on glosses

Disadvantages: Stronger odour, yellowing, slow drying

1. State two advantages and disadvantages of water-based paint.

Advantages: Quick drying, non-yellowing, low odour

Disadvantages: Durability, brush marking

1. Which type of paint would be described as an intermediate coating?

Undercoat

1. Water-based coatings are considered more sustainable than oil-based coatings, why do you think this is?

Oil and solvent used in gloss paint is not a sustainable material

1. Mark whether the following statements are true or false.

Water-based paints are generally not as durable as oil based. T

Brush marks don't flow out in oil-based paint due to the paint drying too quickly. F

Sheen level of water-based gloss isn’t as deep compared to oil based. T

Oil-based paints are less kind to the environment. T

1. Use a dictionary to look up the word ‘permeable’ and describe how it relates to paint.

Subjective; should include allowing moisture to pass through it.

1. Which of the following paints is classed as a permeable coating?
2. Gloss
3. Vinyl silk
4. Contract matt
5. Universal primer
6. Satin
7. Aluminium wood primer