

MEMORANDUM

QUESTION 1

(20 MARKS)

1.1 Name and explain THREE components of paints. (6)

- Pigments ✓ – The pigment in the paint is a finely ground powder which gives the paint its colour and opacity. ✓
- Binder ✓ – It makes the pigment stick to the surface and forms a protective film over the pigment when the paint has dried. ✓
- Solvent ✓ – Solvents are also known as thinners because they thin the paint so that it can be applied. ✓

1.2 What is the use of Fillers and Extenders in paints? (1)

- Fillers and Extenders are added to paints to lower their cost or to alter their properties. ✓

1.3 Name FIVE advantages and dis- advantages of oil – based paints (10)

ADVANTAGES	DIS - ADVANTAGES
Easy to apply ✓	Long dry time ✓
Gives a smooth finish ✓	Have a very strong odour ✓
Hard, durable finish ✓	High levels of VOCs, which are flammable and harm the environment. ✓
Attractive, glossy finish ✓	Brushes must be cleaned with thinners, a harsh solvent. ✓
Washable and easier to keep clean ✓	Not mildew – resistant and therefore not suitable for damp area such as bathrooms and kitchens. ✓
Thick consistency that hides surface imperfections	May peel if the substrate has moisture or has not been properly primed.

1.4 Give THREE reasons why paint may fail. (3)

- Oil – based paints may fail if used on certain building materials. ✓
- Condensation can cause the swelling and shrinkage of the binder, particularly when freshly applied. ✓
- Peeling paint occurs because paint is applied over dirt, grease or loose paint, or because the substrate contained moisture. ✓
- Unsightly wrinkling occurs when paints is applied too thickly.
- Alligatoring is due to the inability of the top coat to bond smoothly to the paint below.

ANY THREE

Memorandum Of Building Science N3 November 2012

Chao Zhang



Memorandum Of Building Science N3 November 2012:

The Enigmatic Realm of **Memorandum Of Building Science N3 November 2012**: Unleashing the Language is Inner Magic

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