Unit 202: Changing practices over time

# Worksheet 3: 21st-century painting and decorating (Tutor)

1. What is the alternative name given to water-based alkyd coatings?

Hybrid coating or blended coating

2. Which type of immersive technology is used in colour selector apps?

Augmented reality

3. Which paint stripping equipment would be most suitable to remove coatings suspected of containing lead?

Infra-red paint stripper/heat gun

4. State **one** advantage and **one** disadvantage of battery-operated tools and equipment.

One of the following advantages and disadvantages:

Advantages: no electricity power supply required, no cables required, ideal for small projects, meets the requirements for sustainability

Disadvantages: not suitable for larger projects, batteries require regular charging

5. What is the active ingredient in eco-friendly chemical paint strippers?

Caustic soda or sodium hydroxide

6. Which mineral is used in the production of dry-lining compound?

Natural gypsum

7. Describe the difference between an airless-fed roller system and a pressure-fed roller system.

An airless-fed roller system (externally-fed) is where the roller is charged by the airless spray system attached.

A pressure-fed roller system (internally-fed) is where the roller is charged by pushing paint out from within the roller core.

8. State **one** advantage and **one** disadvantage of battery-operated spraying equipment.

One of the following advantages and disadvantages:

Advantages: no electricity power supply required, no cables airlines or fluid hoses required, less cleaning required, ideal for small projects, meets the requirements for sustainability

Disadvantages: Not suitable for larger areas, batteries require regular charging, material containers only hold small quantities of paint which will need to be re-filled quite often

9. Describe the basic principle of how an air-assisted airless spray system operates.

Air-assisted airless spray guns firstly pump out paint under high pressure. Secondly, they complete the atomisation with small amounts of compressed air from the face and/or the horns of the air nozzle that they use.

10. List **three** painting and decorating technologies of the future.

Any three from the following:

* self-cleaning paint
* nano technology
* smart paint
* self-healing wraps
* graphene paint
* solar paint
* rapid drying paint
* magnetic paint
* antimicrobial paint
* air-cleaning paint
* one-coat paint
* autonomous painting drone