

Unit-6

Care and cleaning g of Metal

Objective

You will be able to understand:

Different types of metal used in hotel
and its care and cleaning procedure.

Main point

- Care and cleaning of metals
- Type of soiling
- Types of Cleaning Agent

CARE & CLEANING OF METALS

- **BRASS**: Brass is a golden brown alloy of copper and zinc.
- Braso brand commonly known as Brasso metal is an all-purpose polish.
- Braso is also used to polish CD's, DVD's, screens to repair scratches.

CLEANING OF COPPER

- Use mixture of fine sand, salt & vinegar.
- Use liquid ammonia for greenish deposits.
- Use cut lemon with salt sprinkled on it.
- Place in boiling water mixed with salt, vinegar

SILVER

- Tarnished silver is due to silver sulphide.
- Regular cleaning is done by hot solution of synthetic detergent. Rinse with hot water.
- **SILVER DIP**: It is acid solution of thio-urea.
- **PLATE POWDER**: It is pink powder mixed with methylated spirit.
- **POLIVIT**: Silver is dipped in hot washing soda solution in a galvanized sink containing perforated aluminium sheet.
- **BURNISHING MACHINE**:

BRONZE

- It is an alloy of copper and tin.
- Accumulation of dust and dirt can destroy the metal surface.
- **BRONZE DISEASE** is caused when chlorides and oxygen react with bronze in a damp environment.
- Gun metal is an alloy of copper, tin & small amounts of zinc.

EPNS & GUN METAL

- **EPNS**: It is called as electro-plated nickel silver.
- It is an alloy of copper, zinc and nickel.
- It is also called as german silver.
- Care and cleaning is similar to silver.
- **GUN METAL** is an alloy of copper, tin & small amount of zinc. It was used for making guns but now steel is being used.
- Cleaning of gunmetal is same as bronze. Eraser can be used to remove tarnish. Do not use silver dip.

TYPES OF SOILING

- DUST
- DIRT
- TARNISH
- STAIN
- FOREIGN MATTERS

CLEANING SCIENCE

- By cleaning we mean removal of dust, dirt, stain and other unwanted substances from the surface.

CLEANING AGENTS

- **WATER-** High surface tension hence less cleaning property.
- Used in conjunction with a detergent
- **Hard water-** Temporary hardness & permanent hardness.
- **Process of removal of hardness**
- 1. Alkali method 2. Lime soda method
3. Sequestering agent 4. Permutit method or ion exchange method.

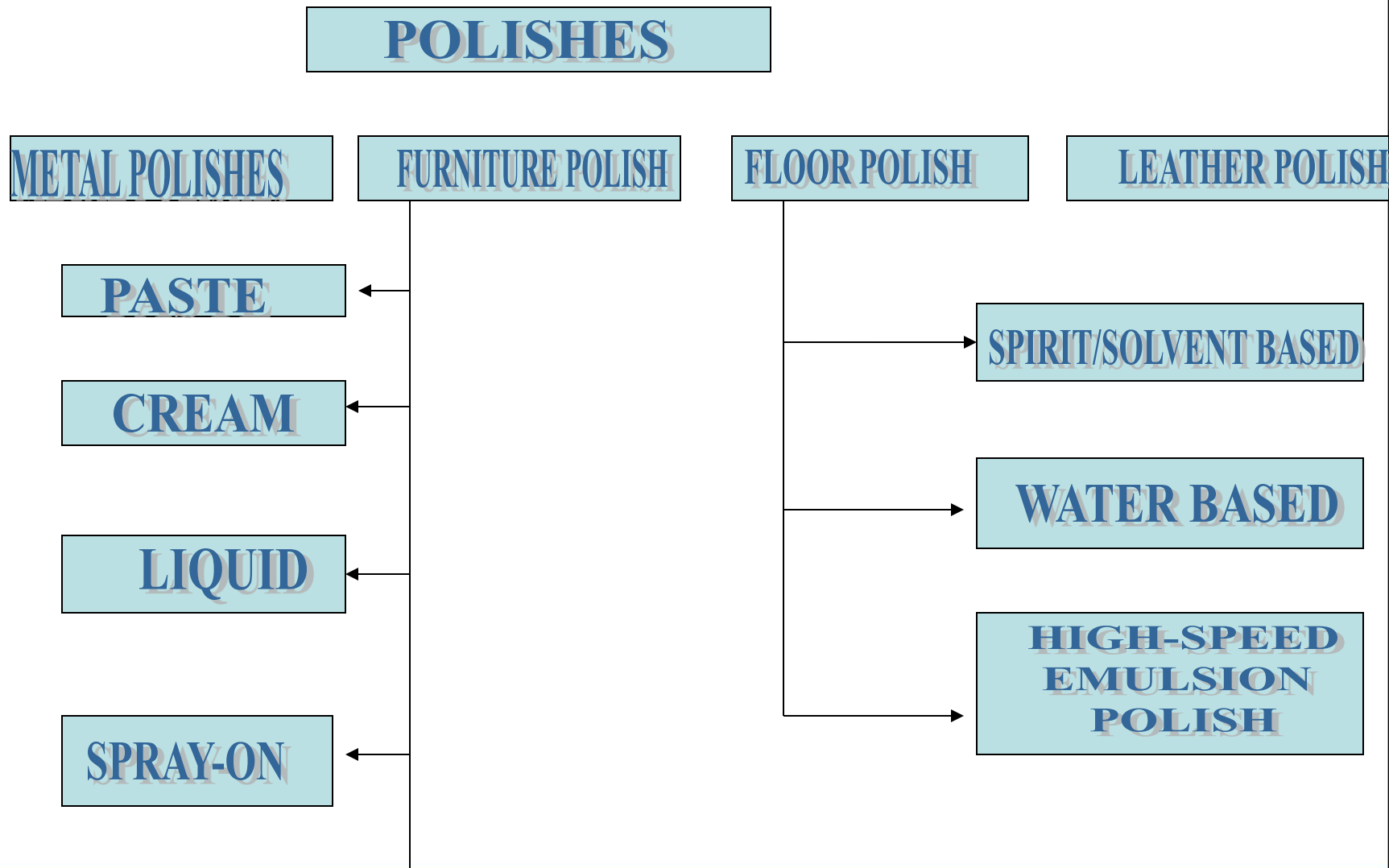
CLEANING AGENTS(CONTD.)

- DETERGENTS: It is of two types-
- SOAPY DETERGENTS & SYNTHETIC DETERGENTS
- Components of a detergents:
 - 1.Active ingredients 2. Builders 3.Additives
- QUALITIES OF A GOOD DETERGENT
- SURFACTANTS:

CLEANING AGENTS

- TOILET CLEANSERS
- WINDOW CLEANSERS
- SODA & AMMONIA
- ACIDS
- ORGANIC SOLVENTS
- BLEACHES & DISINFECTANTS

CLASSIFICATION OF POLISHES



FLOOR SEALS

- Floor seals are applied to floors which form a thin layer of plastic or a semi permanent finish that acts as a protective layer.
- They are grouped as PERMEABLE, SEMI-PERMEABLE & IMPERMEABLE.
- Impermeable seals should not be used on wooden or cork floors as moisture naturally found on these floors will get entrapped and may disintegrate the floor.
- Impermeable seals may be used on PVC s , thermoplastic tiles & rubber floors.

BUFFING & BURNISHING

➤ **BUFFING:**

- 1) The machine with a soft pad & brush has a speed of 175 or 300 rpm (revolution per minute)
- 2) The polishing solution is sprayed & buffing done with rotary floor machine.

➤ **BURNISHING:**

- 1) Similar to buffing but the speed of machine is very high(1500-2500 rpm).
- 2) It is a dry method.

SELECTION OF CLEANING AGENTS

- Type of soil
- Type of surface
- Chemical composition of cleaning agent
- Ease of use, saving of effort & time
- Toxicity or side effects
- Odor
- Range of action or versatility
- Shelf life
- Cost effectiveness & packaging volumes & quantities

STORAGE OF CLEANING AGENTS

- Racks
- Ventilation
- Labeling of containers
- Lid should be tightly secured
- Use proper dispenser or measurer
- No residual deposit in containers
- Avoid spillage
- Systematic procedure of rotating stocks
- Keep solvents away from heat
- Check regularly & store should be locked .

Review

Care and cleaning of various metal used
in hotel

Exercise

How you take care different types of metal which is used in hotel?

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- WWW.YOUTUBE.COM