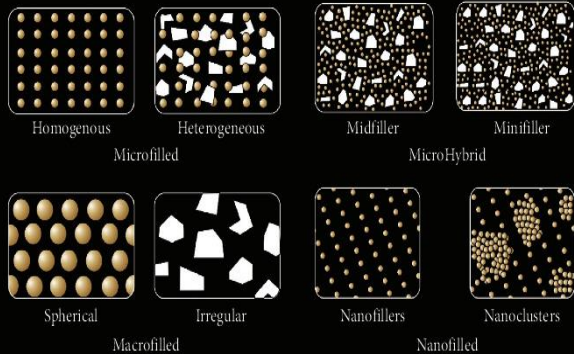




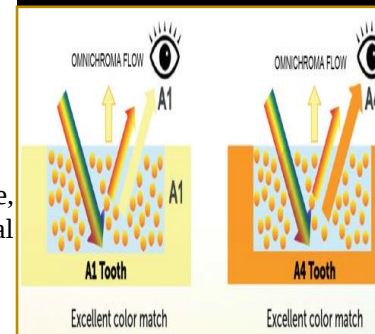
SMART MONOCHROMATIC COMPOSITE

SMART CHROMATIC TECHNOLOGY

Structural colour mechanism
Controlled by size of fillers particles no extra dyes or pigments
used to create red-to-yellow colour
to match surrounding tooth structure
one-shade material that is specified to match entirely 16 VITA
classical shades.

Advantages

1. Only One Shade for A1 to D4
2. Avoids Wastage of Unused composite Shades.
3. Decreases dependency on shade selecting methods.
4. Easy to apply, Higher mechanical properties, good wear resistance, better optical properties along with colour stability than conventional resin composites.



Clinical Procedure

A single shade for posterior and anterior teeth
Chamfered margin
Class III and Class IV ---→ 0.5mm blocking
agent layer

Limitations

1. Long-term color stability in oral cavity is questionable.
2. With aging the physical properties deteriorate.
3. The color-matching ability is excellent with lighter tooth shade while it is not very good with darker tooth shade.

Introduction.

1. Shade matching composite.
2. One Shade for A1 to D4
3. Capture the structural colour of its surrounding tooth
4. Fillers -- 260nm SiO₂-ZrO₂ Spherical-shaped nano filler

Monomers: UDMA/TEGDMA with Filler

Characteristics

1. Better polishing capability
2. Superior flexural and compressive strength
3. Easy handling
4. Ambient light effect resistance
5. clinically satisfactory outcomes

Indications

- i. Direct restorations in both posterior and anterior teeth
- ii. Direct composite veneering.
- iii. Diastema closure or closure of space between any teeth.
- iv. Composite and porcelain repair.

