

"ONE SHADE THAT BLENDS ALL"

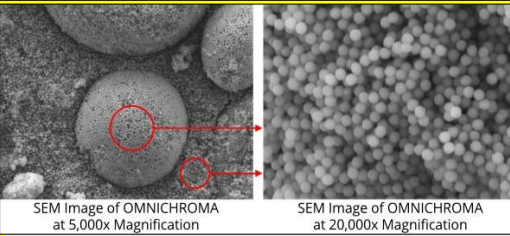
CHAMELEON EFFECT OF COMPOSITE RESINS

CASES RESTORED WITH OMNICHROMA

HISTORY.

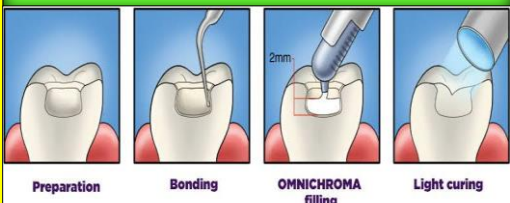
Composite resins were discovered by Rafael Bowen in 1960s, shade selection was time consuming with it. Omnichroma was discovered by Tokuyama in 2019, which doesn't require shade selection.

NANO FILLERS IN OMNICHROMA



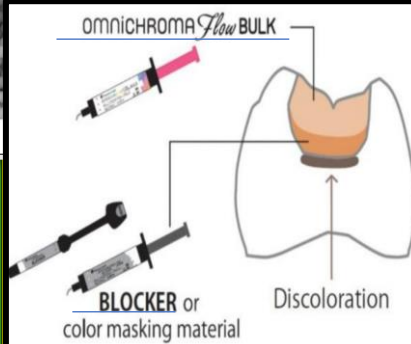
INDICATIONS:

- Universal use for every class
- Direct anterior and posterior restorations
- Direct bonded composite veneer
- Diastema closure
- Repair of porcelain/composite



PROCEDURE

COMPONENTS



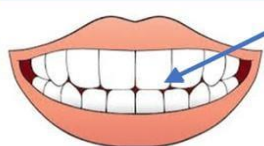
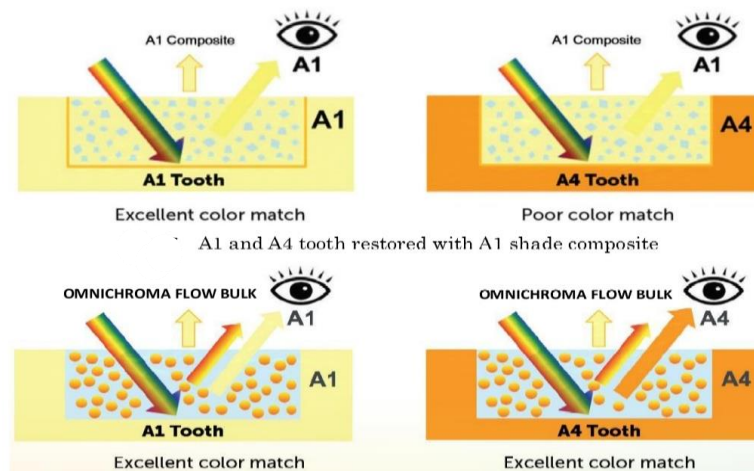
COMPOSITION:

- UDMA, TGDMA
- UNIFORM SIZED SUPRANANO SPHERICAL FILLERS (260nm)
- BLOCKER COMPOSITION
- (0.1 to 0.3 μ m) SiO₂
- ZrO₂ 82% Fillers

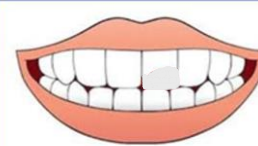
COMMONLY USED SINGLE SHADE COMPOSITE



MECHANISM OF ACTION



WITH BLOCKER



WITHOUT BLOCKER

ADVANTAGES:

- Shade-matching ability
- Excellent Esthetics
- Exceptional handling
- Fine Polishability
- Good Strength
- Reduction of inventory
- Minimized chair time

DISADVANTAGES:

- Opaque \blocker is needed
- Not able to correct colour inadequacies or block dark discolorations

CONCLUSION- It can be concluded that nano filled composite resins exhibits a chameleon effect whereby they can adjust their color to suit that of their surroundings