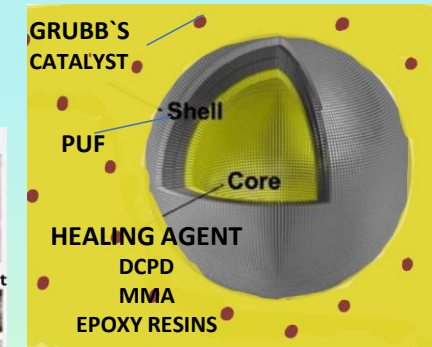
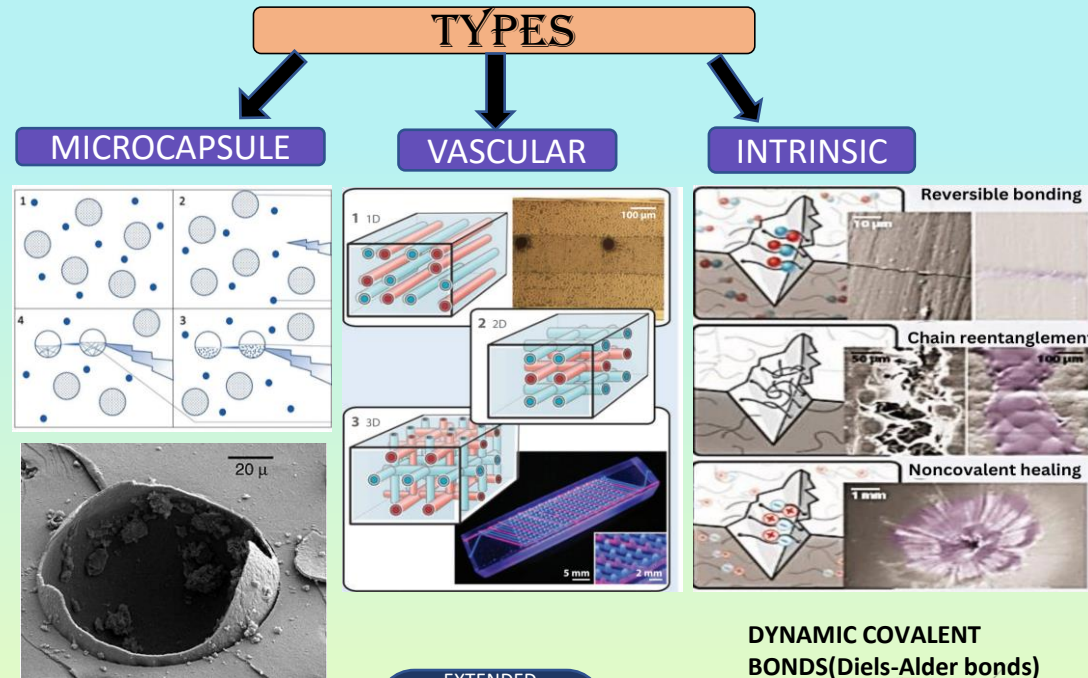
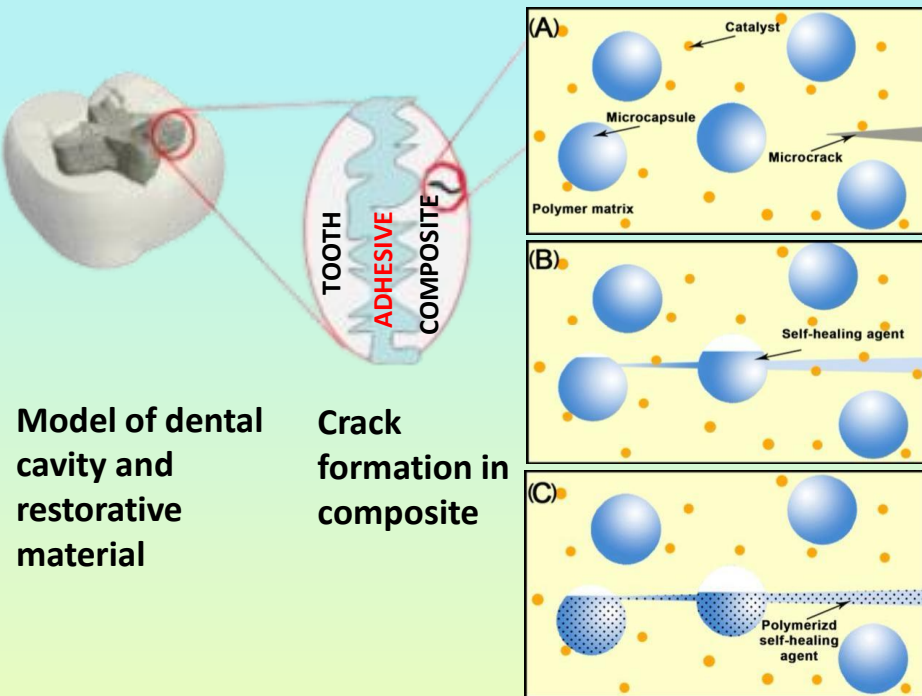


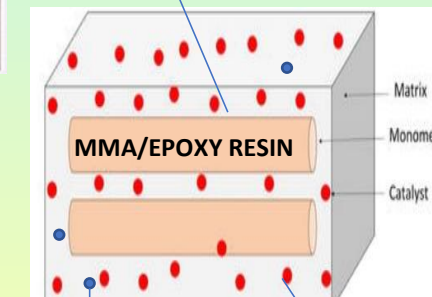
WHEN INNOVATION MENDS ITSELF



SELF-HEALING DENTAL COMPOSITES ARE RESIN BASED DENTAL RESTORATIONS THAT AUTOMATICALLY REPAIR MICROCRACKS THAT FORM DURING OR AFTER HARDENING. EXAMPLES: Ivoclar Vivadent Tetric Evoflow, Dentsply Sirona Surefil SDR, etc.



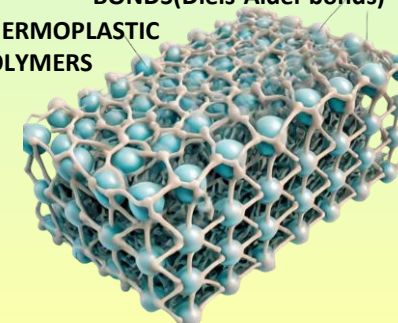
SACRIFICIAL FIBRE
HOLLOW GLASS/POLYMER FIBRE



- EXTENDED RESTORATION LIFESPAN
- IMPROVE DURABILITY AND MECHANICAL STRENGTH
- PROTECTION AGAINST SECONDARY CARIES
- ENHANCE ESTHETICS
- ADAPTABILITY IN HIGH STRESS

DYNAMIC COVALENT BONDS (Diels-Alder bonds)

THERMOPLASTIC POLYMERS



REFERENCES: A Review on the current state of microcapsule-based self healing dental composites – Xiaoxi wang and Tian ding; Prospects and future scope of self-healing composites- Mariyam sheikh, Priyanka paul madhu, Amit reche