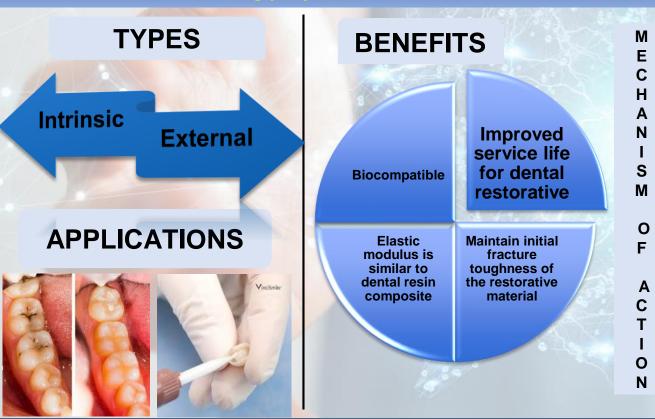


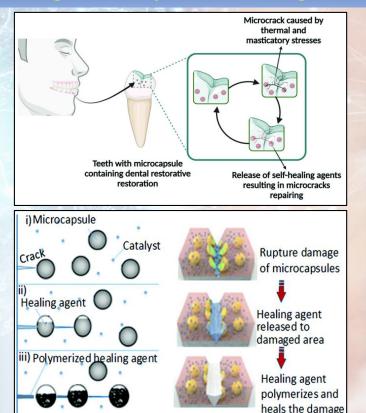




## REVOLUTIONIZING DENTISTRY: ADVANCED SELF HEALING COMPOSITE INNOVATION

Self healing polymers are smart materials can sense damage, self repair, simulating the self cure phenomenon.





**Microcrack formation Crack propagation** Microcapsule rupture Capillary flow **Polymerization** 

<u>REFERENCES</u> Ning K, Loomans B, Yeung C, Li J, Yang F, Leeuwenburgh S. Influence of microcapsule parameters and initiator concentration on the self-healing capacity of resin-based dental composites. Dental Materials. 2021 Mar 1;37(3):403-12

<u>CONCLUSION</u> - Self healing capability eliminates the need for external intervention and hence self healing holds the promising future in the field of dentistry.