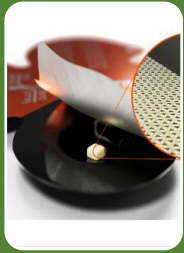


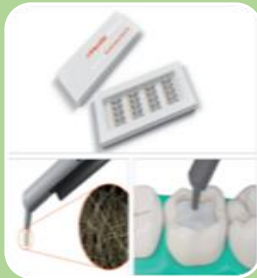
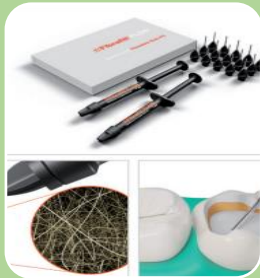
PGE 262

FIBRAFILL-RELIABLE DENTIN REPLACEMENT

REG NO. 1958



INTRODUCTION - The system consists of microhybrid, radiopaque, light-curing composite materials with integrated fiber reinforcement designed for the fabrication of direct fillings as a substitution of dentin layer.



Fibrafill® CUBE
FMI and MEF ensure reliable function. The material's consistence has been optimized for easier manipulation and condensability.

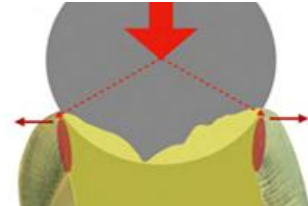
Fibrafill® FLOW
A low-viscosity paste hybridized with dispersed reinforcement constituted by surface-treated short sub micron inorganic fibers.

Fibrafill® DENTIN
Unique mechanical properties, the fibers ensure great toughness. The material's consistence has been optimized for easier manipulation and condensability.

FUNCTIONAL PRINCIPAL -



Loading from mastication expands cusp span



Cusp widening leads to stress concentration in the adhesive joint close to occlusion.

REPRESENTATION OF CRACK PROPOGATION -

Particle filled composite



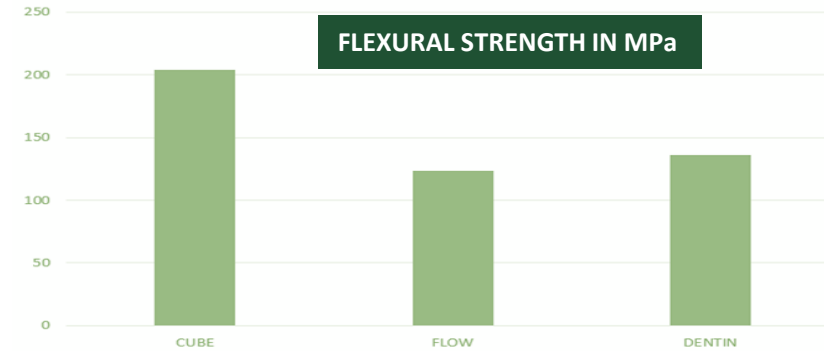
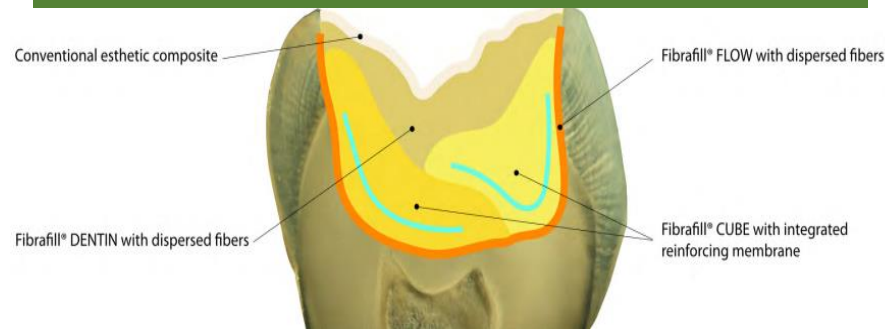
Fast straightforward spreading crack - catastrophic fracture

Composite reinforced with dispersed fibers



Slow zigzag shrinking crack - no catastrophic fracture

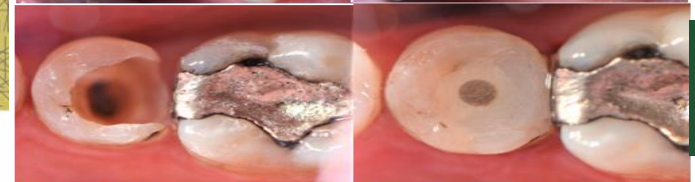
REPRESENTATION OF BIOMIMETIC RESTORATION USING FIBRAFILL -



CASE REPORTS -



CLASS II CAVITY



POST ENDODONTIC BUILDUP



CLASS II CAVITY



RECONSTRUCTION OF CROWN