

MultiCore Composite Resin Core Material (Project 05-10) (10/05)

MultiCore is a dual-curing, filled, fluoride-containing composite resin designed for core build-up restorations of vital and non-vital teeth and luting of fiber posts. MultiCore is available in two viscosities (heavy and flowable) and three shades (light, medium, and blue). In clinical situations where a matrix can be utilized, the flowable consistency of MultiCore Flow may be indicated. MultiCore Flow is delivered from a cartridge with auto-mix and intra-oral mixing tips. Additionally, the low viscosity allows for cementation of endodontic posts. For larger core buildups, clinicians may prefer the heavier body and formability of MultiCore HB. MultiCore HB is dispensed from syringes (base and catalyst), mixed, and applied with an instrument.



Manufacturer:

Ivoclar Vivadent
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Suggested Retail Price:

\$350.00 MultiCore Flow Intro Pack (item #s 578910 to 578912) contains:

- 50-gm cartridge (light, medium or blue)
- Manual dispenser
- Excite DSC adhesive
- Mixing tips

\$205.00 MultiCore HB Intro Pack (item #s 578916 to 578918) contains:

- Two 4-gm syringes each of catalyst and base
- Excite DSC adhesive
- Spatulas
- Mixing pads

Government Price:

\$137.50 MultiCore Flow Intro Pack (item number and contents as listed above)

\$70.00 MultiCore HB Intro Pack (item number and contents as listed above)

ADVANTAGES:

- + Available in three shades (light, medium, blue)
- + Available in two viscosities (heavy and flowable)
- + Unit-dose adhesive agent (Excite DSC) with dual-cure activators provided in kit
- + Automix delivery system simplifies placement of flowable version
- + May be placed in bulk
- + May be prepared immediately after light curing
- + Dual-curing capability assures adequate polymerization
- + Comparatively high strength
- + Adequate working time
- + Excellent radiopacity
- + Competitively-priced flowable version
- + Laminated, illustrated instructions cards

- + Lot number, expiration date, and storage conditions provided on box, cartridges and syringes
- + Material Safety Data Sheet (MSDS) provided with kit

DISADVANTAGES:

- More expensive than amalgam
- HB (heavy body) paste/paste version may be more difficult to mix
- The various shades and viscosities must be purchased separately
- Another dispenser gun to maintain
- Must be refrigerated

SUMMARY AND CONCLUSIONS:

MultiCore is a dual-curing, filled, fluoride-containing composite resin indicated for core build-up restorations of vital and non-vital teeth and luting of fiber posts. Light curing of the material allows immediate preparation while the self-curing capability assures adequate polymerization within the depths of the core. MultiCore is available in three shades and two viscosities. Laboratory testing found high strength, hardness, and radiopacity, especially with the HB, or heavy-body version. The clinical evaluators rated the working time and ease of dispensing and placing the core material as excellent or good overall. MultiCore HB material may be relatively difficult to mix due to its higher viscosity. MultiCore Flow is competitively priced, but more expensive than amalgam. All of the evaluators rated MultiCore as excellent overall and would consider its purchase for their clinic. **MultiCore** is rated **Excellent** for use in US Air Force dental facilities.