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A new low shrinkage, universal restorative composite material has been developed (Septodont, Louisville, CO) using a new dimer acid derived monomer as part of the comonomer system and a nanohybrid filler.

Objective: To evaluate the clinical performance of this material as an anterior restorative.

Materials and Methods: Opti-Bond Solo total-etch (Kerr, Orange, CA) was used as the dental adhesive. Class III, IV, V, incisal edge repairs, diastema closures and direct veneer restorations were placed in anterior teeth. With the IRB approval, a total of 40 restorations were placed in 23 patients. Restorations were evaluated at two-week baseline period, 6 months and 1 year, and are planned to be recalled at 18 month and 2 years, with an optional evaluation at 3 years and 4 years. Restorations were evaluated for the following variables: Anatomic Form (AF), Color Match (CM), Marginal Adaptation (MA), Marginal Discoloration (MD), Surface Staining (SS), Retention (RT), Secondary Caries (SC), Fracture (FX) and Polishability (PL) using a modified USPHS evaluation system.

Results: Results at the one year evaluation indicated that all restorations had excellent anatomic form, marginal adaptation, marginal discoloration, surface staining, retention, and secondary caries. The following results are in percentages (%) at the one year evaluation.

| | AF | CM | MA | MD | SS | RT | SC | FX | PL |
|----------------|-----|----|-----|-----|-----|-----|-----|----|----|
| Alpha | 100 | 94 | 100 | 100 | 100 | 100 | 100 | 94 | 88 |
| Bravo | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Charlie | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| Delta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

None of the patients exhibited postoperative sensitivity or exaggerated gingival response. In general, all the restorations were initially judged to be clinically satisfactory.

Conclusions: The N'Durance composite produces good clinical results for anterior restorations at the one year evaluation with no postoperative sensitivity or gingival irritation.

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