FOR IMMEDIATE RELEASE

Three-year clinical study at Loma Linda: Excellent results for iBOND® Self Etch

HANAU, FEBRUARY 24, 2012 – In a three-year in vivo split mouth study, the Center for Dental Research at the Loma Linda University School of Dentistry in Loma Linda (CA, USA) has tested iBOND® Self Etch by Heraeus. The self-etching all-in-one adhesive earned best marks with regard to anatomic form, retention, surface stain, postoperative sensitivity and secondary caries. In terms of color match, marginal adaptation, marginal discoloration and polishability, the easy-to-use iBOND Self Etch shows clinically equally excellent results as the long-proven etch & rinse system GLUMA® Comfort Bond + Desensitizer.

These clinical findings verify once more that contemporary self-etching adhesives combine easy application with excellent adhesive properties, even in comparison to a proven etch & rinse adhesive. Due to integration of conditioning in the primary adhesive the all-in-one adhesive iBOND Self Etch provides etching, priming, bonding and desensitizing in one single step. Without compromises regarding bonding and adhesive effects the adhesive by Heraeus represents an easy-to-use and reliable alternative to etch & rinse systems.

Clinical procedure: analysis of 60 class I and II fillings
In a clinical split mouth study the Center for Dental Research at the Loma Linda University School of Dentistry evaluated the clinical efficacy of iBOND Self Etch in posterior direct composite restorations compared to the long term available adhesive GLUMA Comfort Bond + Desensitizer.
A total of 60 class I and II fillings with the universal composite Venus® were placed in 21 patients – half of them bonded with iBOND Self Etch, the other half with GLUMA Comfort Bond + Desensitizer. During the three-year evaluation 52 out of 60 restorations were evaluated, showing a high recall rate of 86.7 percent. The restorations were evaluated following modified Ryge criteria for anatomic form (wear), color match, marginal adaptation, marginal discoloration, surface staining of the restoration, retention, fracture, secondary caries, polishability, and changes in adjacent teeth.

With these criteria, the marks range from “Alpha” (best) to “Bravo” (clinically acceptable), “Charlie” and “Delta”. In addition, soft tissue health and post-operative sensitivity were evaluated using the Loe-Silness gingival index (“0” meaning none, “2” meaning moderate to severe inflammation) and the visual analogue scale (“0” meaning none, “10” meaning severe sensitivity), respectively.

**Best results for iBOND Self Etch**

After three years, all restorations bonded with iBOND Self Etch obtained “Alpha” marks for anatomic form, retention, secondary caries, surface stain, fracture, and changes in adjacent teeth, meeting all prerequisites for an excellent adhesive system. “A” marks without exemption for retention indicate outstanding bond strength on enamel and dentine. None of the study teeth exhibited postoperative sensitivity which also indicates good sealing in dentine and reduced technique-sensitivity.

Further, all study teeth showed healthy surrounding periodontal tissues. As to marginal adaptation and discoloration, color match and polishability, iBOND Self Etch achieved similarly excellent results as the etch & rinse system, scoring nearly consistent “A” marks. One restoration received a “C” score on color match due to a changed shade of the remaining tooth structure which didn’t occur at the margins of the restoration.
Equal to proven etch & rinse systems, especially easy to use

As the three-year study shows, both bonding agents demonstrated a highly satisfactory clinical performance. The all-in-one adhesive iBOND Self Etch leads to the same first-class results as the proven etch & rinse adhesive from the control group – but in one single step.

Fig. 1: Excellent clinical performance after 36 months: iBOND Self Etch by Heraeus gains high marks in a study conducted by the Loma Linda University School of Dentistry showing comparable results to the proven etch & rinse adhesive GLUMA Comfort Bond + Desensitizer.

Fig. 2: The all-in-one adhesive iBOND Self Etch by Heraeus etches, primes, bonds, and desensitizes in one single step. Dentists achieve safe and long-lasting results in a fast and easy way with every restoration.
For more information on iBOND Self Etch, call (877) 431-1785 or visit www.heraeusdentalusa.com For more information on Heraeus or its other products, call (800) 431-1785 or visit www.heraeusdentalusa.com.

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**About Heraeus:**

Heraeus, the precious metals and technology group headquartered in Hanau, Germany, is a global, private company with 160 years of tradition. Our fields of competence include precious metals, materials, and technologies, sensors, biomaterials, and medical products, as well as dental products, quartz glass, and specialty light sources. With product revenues of €4.1 billion and precious metal trading revenues of €17.9 billion, as well as more than 12,900 employees in over 120 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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