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Press release

Hilzingen, Germany – September 2026

Greater process safety in the surface activation of zirconium oxide

Renfert presents the BASIC prebonder XS for standardized surface activation of zirconium oxide and other materials

Renfert has stood for dental fine sandblasting technology for decades. With the BASIC prebonder XS, the company now presents this competence as a compact system. Specially designed for surface activation, the BASIC prebonder XS creates defined conditions for the adhesive pre-treatment of zirconium oxide, metal alloys as well as hybrid materials and modern polymers. The specially developed system standardizes a previously strongly user-dependent process step and thus plugs a gap in the adhesive cementation workflow.

The BASIC prebonder XS was developed in cooperation with the Materials Research department of the Polyclinic for Dental Prosthetics at the LMU Clinic in Munich. Renfert's experience in dental fine sandblasting technology and the materials science expertise of the LMU were incorporated directly into the system. Sandblasting energy, nozzle geometry and sandblasting media are adapted to each other in such a way that scientifically defined process conditions can be implemented reliably in everyday practice.

For this, the BASIC prebonder XS combines a precision pressure gage with a marked working area, the Prebonder control tip for maintaining a constant working distance, the specially developed Prebonder jet nozzle as well as the high-purity corundum sandblasting medium Prebonder surface pro. The system is augmented by the Prebonder control pad, with which the sandblasting performance can be checked within a few seconds before use. With its compact one-tank system, the BASIC prebonder XS can be easily integrated into existing workflow structures. It is used with an existing sandblasting chamber or a separate sandblasting box and supports a standardized process without

expensive adaptations.

The BASIC prebonder XS turns sandblasting into prebonding – the scientifically defined surface activation before adhesive cementation.

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More information

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