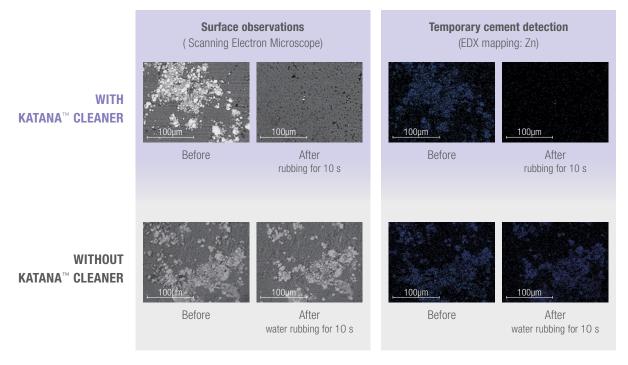


CLEANING THE RESIDUES & OPTIMIZING YOUR CEMENTATIONS

After the removal of the temporary crown before cementing the final restoration, traditional abutment cleaning methods may not be enough to remove residual temporary cement. This could result to a reduction in bond strength. KATANA™ Cleaner has a high cleaning effect due to the surface active characteristic of MDP Salt, which is formed from the phosphate monomer "MDP" and an alkaline compound. It is a simple way to optimize your cementation procedures and recover the bond strength.



Adhesion surface treatment: 1) Polishing #1000 bovine teeth, 2) Temporary Crown (acrylic self-curing resin) was cemented with temporary cement (zinc poly-carboxylate cement), 3) Stored at 37 °C and 95% RH for 1 week, 4) Temporary Crown was removed and the temporary cement was removed with an ultrasonic scaler, 5) Rubbing with KATANA™ Cleaner for 10 s (upper images)/Water rubbing for 10 s (lower images).

IMPROVING THE BOND STRENGTH

As shown in the graphs below, removal of residual cement either with an ultrasonic scaler or pumice paste & prophylaxis cup may not be enough. KATANA™ Cleaner's high cleaning effectivity contributes for an optimised bonding surface.

Temporary cement removed with:

Ultrasonic scaler

30 ■ No contamination Shear bond strength (MPa) After removing the temporary cement 20 (polycaboxylate type) with an ultrasonic scaler After removing the 10 temporary cement (polycaboxylate type) 0 with ultrasonic scaler PANAVIA™ CLEARFIL™UNIVERSAL PANAVIA™ V5 and treatment with

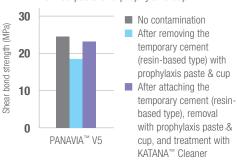
BOND QUICK

PANAVIA™ SA CEMENT

Universal

Temporary cement removed with:

Pumice paste and prophylaxis cup



Test conditions

SA CEMENT

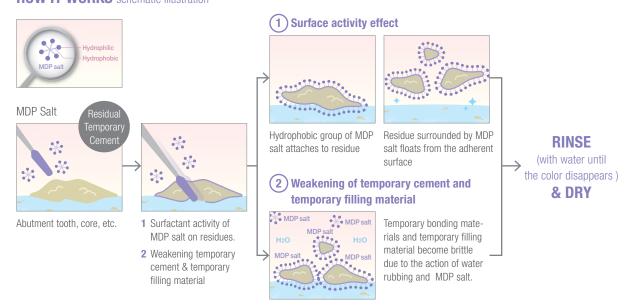
Universal

Adhesion surface treatment: 1) Polishing #1000 human teeth, 2) Temporary Crown (acrylic self-curing resin) was cemented with temporary cement (polycarboxylate type, resin-based), 3) Stored at 37 °C 95% RH for 1 week, 4) Temporary Crown was removed and the temporary cement was removed with an ultrasonic scaler or pumice paste and prophylaxis cup at low revolution (5000 pm, 10 s), 5) Cleaning with KATANA** Cleaner, Bonding strength measurement: 1) SUS chip (3mm?) was bonded by each bonding operation (PANAVIA** SA Cement Universal, CLEARFIL*** Universal Bond Quick/PANAVIA** SA Cement Universal, PANAVIA*** V5), 2) Measured after storage in water at 37 °C for 1 day.

KATANA™ Cleaner

Source: Kuraray Noritake Dental Inc

HOW IT WORKS schematic illustration



CONCLUSION

Appropriate cleaning of residual temporary cement before cementing a restoration is crucial for reliable cementation. KATANA™ Cleaner's high cleaning effect removes contamination to optimize your cementation procedures.

For more information visit kuraraynoritake.eu/katana-cleaner

