# **kura**ray

Noritake

### SCIENTIFIC REPORT

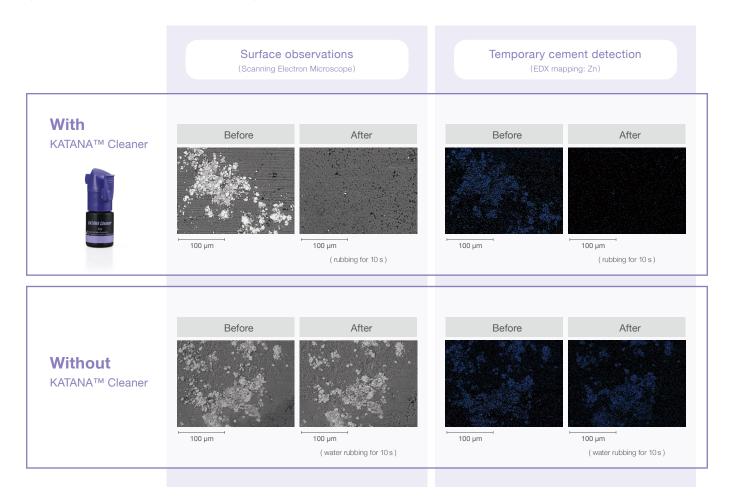


KATANA<sup>™</sup> Cleaner

Effectiveness of temporary cement removal with KATANA™ Cleaner

# **Cleaning the Residues & Optimizing your Cementations**

After the removal of the temporary crown before cementing a restoration, traditional cleaning methods of the abutment may not be enough for removing residual temporary cement which will reduce the bond strength. KATANA<sup>™</sup> 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.



#### Test conditions

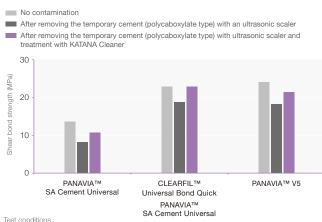
Adhesion surface treatment: 1) Polishing #1000 bovine teeth, 2) Temporary Crown (acrylic self-curing resin) was cemented with temporary cement (zinc polycarboxylate cement), 3) Stored at 37°C and 95% RH for 1 week, 4) Temporary Crown was removed and the temporary cement was removed with an ultrasonic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

# Improving the Bond Strength

As shown on the graphs below, removal of the residual cement either with an ultrasonic scaler or pumice paste & prophylaxis cup may not be enough. After cleaning with KATANA™ Cleaner, its high cleaning effectiveness contributes for an optimized bonding surface.

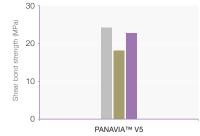
### Temporary cement removed with:

### **Ultrasonic scaler**



#### Pumice paste and prophylaxis cup

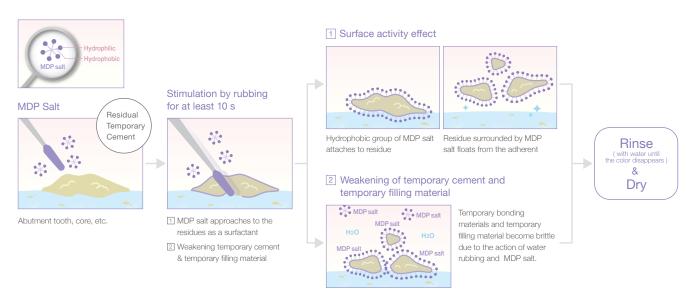
- No contamination
- After removing the temporary cement (resin-based type) with prophylaxis paste & cup
- After attaching the temporary cement (resin-based type), removal with prophylaxis paste & cup, and treatment with KATANA Cleaner



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 purice paste and prophylaxis cup at low revolution (5000 rpm, 10 s), 5 ) Cleaning with KATANA<sup>™</sup> Cleaner. Bonding strength measurement: 1 ) SUS chip (3mmф) was bonded by each bonding operation (PANAVIA<sup>™</sup> SA Cement Universal, CLEARFIL<sup>™</sup> Universal Bond Quick/PANAVIA<sup>™</sup> SA Cement Universal, RAVAVIA<sup>™</sup> V5), 2 ) Measured after storage in water at 37°C for 1 day.

Source: Kurarav Noritake Dental Inc.

#### **How it Works** - schematic illustration -



## Conclusion

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

### Kuraray Noritake Dental Inc.

1621 Sakazu, Kurashiki, Okayama 710-0801, Japan

Website www.kuraraynoritake.com

US Distributed by Kuraray America, Inc. 32 Old Slip, 7th Floor, New York, NY 10005

EC REP **Kuraray Europe GmbH** Philipp-Reis-Str. 4 65795 Hattersheim am Main, Germany

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