

AquaCare – the Air Particle Abrasion and Polishing Hybrid

AquaCare

A SELECTION OF APPLICATIONS

- AquaCare increases bond strength with its texturing of the cavity surface.
- Balanced, slim-line, fully autoclavable handpiece without bulky attachments.
- Incredibly versatile across a wide variety of restorative dental procedures.
- User-friendly with easy colour code cartridge system makes swapping between types of treatment effortless.

- Minimal need for anaesthetics combined with the lack of vibration, heat generation and noise leads to reduced patient anxiety. AquaCare is recognised as a practice enhancing product.

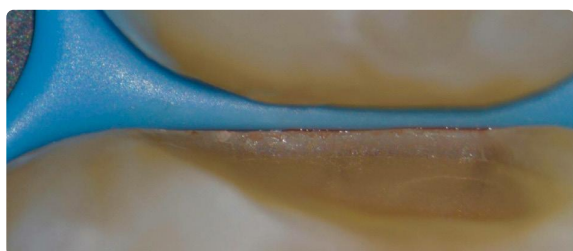
- Faster, more efficient cleaning for removing stains from all tooth aspects, even accessibly difficult pits and crevices, whilst also treating sensitivity. Patients love their brilliant smiles.



"Air abrasion from buccal and lingual to remove all debris. I use an AquaCare." **Dr. Lincoln Harris**, restoringexcellence.com.au



"Particle abrasion with 29µm Aluminium Oxide to remove aprismatic enamel and improve bond strengths prior to no prep direct bonding to close black triangles which were secondary to periodontal disease." **Dr. Jason Smithson**



"Always finish on 29µm Aluminium Oxide and Syc." **Dr. Thomas Taha**



"Cleaning and conditioning old composites with AquaCare 53µm Aluminium Oxide." **Dr. Jordi Manauta**



"Prepared with AquaCare only - no drilling 53µm Aluminium Oxide / 5 bar then Syc for 30 seconds." **Dr. David Gerdolle**



"Cleaning with Syc." **Dr. Griya Ridha Raharja**

DENTINE HYPERSENSITIVITY, REMINERALISING, IMPROVED BOND STRENGTH & STAIN REMOVAL



"Cleaning the composite leftovers and preparing the dentine surface for adhesion". Dr. Ivan Raychev



"Always finish on 29µm Aluminium Oxide and Sylc". Dr. Thomas Taha

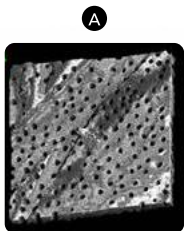
Powered by Bio Active Glass 45S5, Sylc is a calcium sodium phosphosilicate powder, a highly biocompatible material which was initially developed as a bone conductive material. The bioactive glass material reacts with body fluids (saliva) to deposit hydroxycarbonate apatite (HCA), a mineral that is chemically similar to natural tooth mineral.

This is one of the reasons why finishing the cavity with Sylc will occlude the dentinal tubules, reduce the water-contamination at the bonding interface with consequent hydrolytic degradation and reduce the risk of postoperative hypersensitivity.

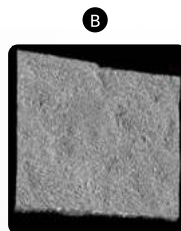


Stain Removal Dr. Thomas Taha

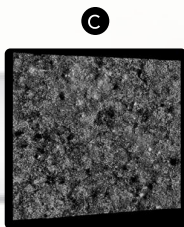
NO MAGIC, JUST SCIENCE



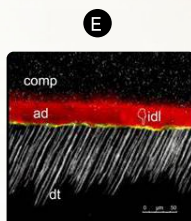
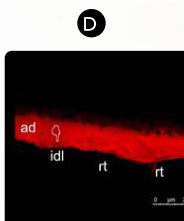
A: Dentine before air-abrasion. Note a smear layer-free surface with many patent dentinal tubules. (Confocal 3D topographic image)



B: Dentine treated using AquaCare and Sylc bioglass. Note the presence of a smear layer occluding the dentinal tubules and covering the entire dentine surface. (Confocal 3D topographic image)



C: Dentine treated using Sylc and conditioned with a universal adhesive in self-etching mode. Note the smear layer partially covering the dentine surface. A Bioglass-rich smear layer is still available for conversion into apatite at the resin-dentine interface. However, most of the dentinal tubules are occluded entirely; the risk for postoperative sensitivity here is very low. (Confocal 3D topographic image)



D: Universal adhesive applied in self-etch mode onto a dentine surface treated with AquaCare and Sylc bioglass. Note the adhesive (ad) was able to form a sound interdiffusion layer (IDL: hybrid layer) but with very few resin tags (rt). In the confocal single-projection image (E) it is possible to observe a reflective material obliterating the dentinal tubules. It is most likely that the bioglass particles have penetrated the tubules several microns during the air-abrasion procedures.

Prof. Dr. Salvatore Sauro,

Dental Biomaterials, Preventive and Minimally Invasive Dentistry, Universidad CEU-Cardenal Herrera, Valencia, Spain.

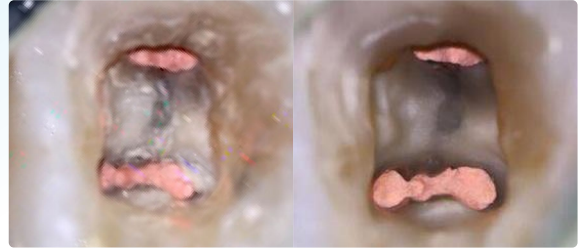
Strategies To Stabilise Dentine-Bonded Interfaces Through Remineralising Operative Approaches –State Of The Art

International Journal of Adhesion and Adhesives, Volume 69, September 2016, Pages 39-57 Salvatore Sauro , David H. Pashley

A SELECTION OF APPLICATIONS



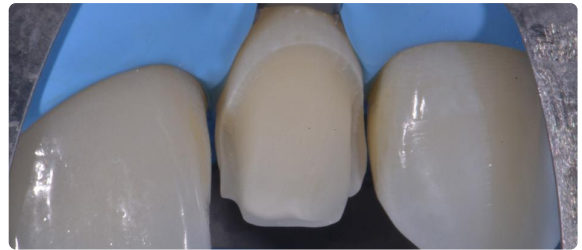
"Used 53µm Aluminium Oxide, then used electrosurgery and isolated by means of Ferrior Clamps and teflon. The image is after sandblasting and before etching." **Dr. Pasquale Venuti**



"Blasting with Sodium Bicarbonate and a curtain of water allows me to remove obturation cement from the floor of the pulp chamber, isthmuses or other retentive areas." **Dr. Freddy Belliard**



"AquaCare allows me finally to sandblast or prophylaxis inside and outside the mouth, with or without water, with the exact amount of media I want to deliver. I'm in full control now of those important procedures." **Dr. Walter Devoto**



"Particle abrasion with 53µm Aluminium Oxide to remove bonding resin used for temporaries, to clean adhesive surfaces and improve bond strengths before cementing four disilicate veneers." **Dr. Lorenzo Vanini**



"Always finish on 29µm Aluminium Oxide and Sylc". **Dr. Thomas Taha**



"Decontamination" **Dr. Florin Cofar**



"I don't use AquaCare every day, I use AquaCare every single patient"
Dr. Jason Smithson, UK



"In my modest opinion, AquaCare is the best tool to reach a perfect decontamination in adhesive dentistry" **Dr. Gianfranco Politano, Italy, Bio-Emulation**



"Adhesive dentistry is a demanding specialty that doesn't forgive much... nevertheless the keystone of any adhesive treatment is to prepare a clean and a rough surface to bond on. For the purpose, AquaCare is the most efficient and polyvalent device I have used so far." **Dr. David Gerdolle, Switzerland.**

Bold New AquaCare Black Edition



"the Difference between just using a device or investing in a Philosophy"

Dr. Dimitris Tsanaksidis



Sodium Bicarbonate

AquaCare Sodium Bicarbonate, mint flavour, provides an Air Polishing prophylaxis treatment that is highly effective in cleaning and stain removal. The 65µm particle size maintains patient comfort during and after treatment.



Sodium Bicarbonate SOFT

Sodium Bicarbonate SOFT, mint flavour and with over 40% reduction in particle size [35µm] for maximum patient comfort. Effective in the removal of biofilm and general prophy supra and stain removal.



29µm Aluminium Oxide

Dental Air Abrasion Powder For Fine Cutting, Cavity Preparation and Decontamination.



53µm Aluminium Oxide

Dental Air Abrasion Powder For Coarse Cutting, Cavity Preparation and Decontamination.



Sylc Bio Active Glass 45S5 - Calcium Sodium Phosphosilicate

Prophylaxis, Cleaning, Polishing and forms Hydroxycarbonate apatite [HCA].

Provides a prophylaxis treatment that reduces dental sensitivity with immediate effect and encourages the remineralisation of damaged tooth material, all with a neutral taste. The powder occludes exposed dentine tubules blocking nerve access to the affected areas and can preserve the integrity of the bond and reduce marginal micro-leakage and staining.

EVERY
SINGLE
PATIENT

"the Difference between just using a device or investing in a Philosophy"

Dr. Dimitris Tsanaksidis



Aluminium Trihydroxide (LabSeries)

Ideal for the removal of Biofilm.



CoSiL 30µm (LabSeries)

Can be used for the silicatization and repair of metal, ceramic and composite surfaces. Used in conjunction with a silane coupling agent for chemical bonding with a bonding material and a composite. Ideal in the pre-treatment of metal restorations before adhesive luting with a composite luting cement and pre-retreatment of ceramic or composite restorations before adhesive attachment. 30µm aluminium oxide silica highly coated particles.



50µm Glass Beads (LabSeries)

Mineral glass-abrasive, for polishing of crowns and bridges, production of mastication surface on occlusal surfaces. Blasting of secondary crowns, removal of oxidation films after the final bake.



CoSiL 110µm (LabSeries)

Cobalt chrome, titanium, gold, ceramic and HPP surfaces can be coated with Cosil 110µm to form a silicatised adhesive layer which ensures durable retention-free bonding to composites and resins. 110µm aluminium oxide silica highly coated particles.



110µm Aluminium Oxide (LabSeries)

For blasting off precious and non-precious metal alloys. Also for ceramic alloy metal preparation.

POWDERS

When it comes to powder, we believe you deserve the best quality so that your experience with AquaCare never fails to be other than outstanding.

Our AquaCare cartridges are designed to deliver the same flow rate whichever powder you choose. Our recommended media setting is the mid position on the gauge.



AQUASOL

AquaSol safely and effectively delivers a curtain of fluid surrounding the powder in use.

The advanced 'Venturi' design tip ensures mixing is external of the handpiece and blockage free.

It is patient-friendly with a Vanilla aroma.



AquaSol not available in the US

OUR RANGE OF TIPS



Standard Tip

Suitable for all powders.



iTip

Designed for the 0.6mm handpiece for interproximal and diastema use, though routinely used in many other applications.



Plus Tip

Ideal for larger particle size, higher pressure and wider coverage e.g. hypomineralised, hygiene and cutting.



No Tip

For when you want to work dry.

AQUACARE STAND

The AquaCare Stand allows for the unit to be placed conveniently next to the user. Available with or without the DryAir System, and for both classic white and Black Edition AquaCare units.

Lightweight and sturdy construction.



DRYAIR SYSTEM

Provides a high-quality, clean supply of compressed air that is free of moisture contamination from the compressed air-line used to power the AquaCare unit. An excellent dry air supply is essential for trouble-free operation.



CLEANDENTISTRY

Powered By AquaCare



AquaCare | Black Edition

Height : 185 mm
Length : 265 mm

Depth : 240 mm
Weight : 3,066 kg

Single

Height : 185 mm
Length : 184 mm

Depth : 216 mm
Weight : 1,900 kg



CLEANDENTISTRY FOR YOU CONTACTLESSDENTISTRY FOR YOUR PATIENT

AquaCare Dental Air Abrasion and Polishing units use breakthrough technology to deliver CleanDentistry. Comfortable and quick air particle abrasion or air particle polishing procedures are provided by using a fine stream of fluid combined with a tiny volume of powder directed at the teeth to be treated.

Unlike conventional rotary cutting instruments, the AquaCare handpiece is not in direct contact with the tooth structure, removing only the minimum of sound tooth material and eliminating the risk of chipping and stress fractures.

CAPABILITIES

Adhesive Dentistry, Bonding, Clean, Desensitising, Endo, Implant, Laboratory, MID, Ortho, Paediatric, Pekkton, Perio, Prophylaxis, Remineralising, Restorative Dentistry, Stain Removal, Veneers, Whitening...



Bill Marais



Phil Reddington



Dual Arch Titanium and Pekkton
Phil Reddington

AquaCare LabSeries:

Create ideal bonding surfaces on frameworks, attachments, abutments, copings and crowns with precision and ease using AquaCare.

The AquaCare LabSeries unit is capable of delivering up to 7 bar pressure in both chambers.

*The integrated fluid bottle included in the system can be filled with **99.9%** isopropyl alcohol, so blasting and cleaning of frameworks, attachments, abutments, copings and crowns can be completed in one, simple step, creating the ideal bonding surface.*

The precision tips on AquaCare handpieces greatly enhance precision when compared to current laboratory sandblasters.

The AquaCare LabSeries comes with: 2 handpieces, liquid bottle and disposable tips.

IMPORTANT: Though blast stream is more precise, use of a vacuum or blasting hood is suggested when using AquaCare units.

IMPORTANT: DO NOT position AquaCare unit near heat sources or open flames, especially when utilising isopropyl alcohol in the liquid bottle

