



MDT Michael Brusch, Düsseldorf, Germany
MDT Michael Brusch is an authority on the subject of all-ceramic and biomaterials and functional restoration work. He is an international adviser and course presenter. Brusch' has a great contribution in the development of the GC Initial ceramic line.



Diederik Hellingh, Business Unit Manager
Prosthetics, GC Europe



RDT Mark Bladen, Worcester, United Kingdom
Master Ceramist and lab owner for 35 years. Mark is a GC KOL since 2005 and has been presenting various courses throughout Europe on layering, micro-layering and stain-and-glaze techniques.

Excellent aesthetics with a significant time gain

Interview with Michael Brusch, Mark Bladen, Leonardo Cavallo, Carsten Fischer, Patrick Freudenthal, Joaquin Garcia Arranz, Diederik Hellingh and Stefan Roozen

GC Initial™, the well-known dental ceramic system accelerates the laboratory workflow with a new and highly aesthetic, paintable colour-and-form ceramic system: GC Initial ONE SQIN. On the occasion of its introduction, we had a coronaproof (!) interview with various experts in the field.



With the ONE SQIN paintable colour-and-form ceramic concept a highly aesthetic result is easily achieved in only two firings.

Excellent aesthetics with a significant time gain



CDT Carsten Fischer, Frankfurt am Main, Germany

CDT Fischer owns a specialist dental laboratory in Frankfurt am Main and acts as an international consultant and his many publications bolster this role. The main focuses of his work include CAD/CAM technologies, ceramic double crowns, pressable ceramics and individual abutments.



MDT Patric Freudenthal, Ystad, Sweden
Since 2004, Patric has lectured on different topics, such as: implants CAD/CAM, aesthetics, full ceramics, etc. Function & aesthetics with technology is the key-instrument in his everyday work.



MDT Joaquín García Arranz, Madrid, Spain
Joaquín García Arranz (Quini) is a speaker of numerous courses in national and international conferences and author of different articles published in national magazines and author of the book "Experience Group".

Why has GC developed the GC Initial IQ ONE SQIN concept and what does that actually mean?

Michael Brüsich: This novel concept has been developed to be able to follow the current market demands and it opens up a different and unique way of micro-layering.

Diederik Hellingh: While the entire manufacturing process is becoming more digitalized, customers are having increased aesthetic expectations. The pressure on the laboratories is high to work cost-efficient while delivering excellent quality. GC Initial ONE SQIN is the response to these demands. Highly aesthetic restorations for the anterior as well as the posterior area can be made without needing

cumbersome and time-consuming layering techniques.

The system is based on the GC Initial "IQ philosophy" and consists of perfectly compatible, different ceramic materials to realize an efficient, beautiful finishing of pure monolithic and buccally reduced restorations. The work procedure is very short but enables the dental technician nonetheless to choose his preferred technique.

Used on full monolithics, the new Lustre Pastes ONE - feldspar-based 3D paint-on ceramics - add colour, depth and lifelike translucency with a very natural glaze. Their inherent fluorescence is intended to fine-tune and boost the overall fluorescence of monolithic restorations.



The new Lustre Pastes ONE with inherent fluorescence

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On buccally reduced monolithics, these Lustre Pastes ONE are used to characterize and add colour and also serve as connection firing before application of the new SQIN ceramics. The latter are easily applied in a thin layer of about 0.1–0.6 mm over the painted and fired Lustre Pastes ONE surface. Thanks to the refined mixture of feldspar-based glasses, a lifelike 3D-effect is created, not shy of any comparison to conventional layering. Their unique application and modelling properties will facilitate individual surface texturing and it has self-glazing properties so finishing can be reduced to the minimum.

The GC Initial product portfolio already comprises a full line-up. Why would it still be interesting to have this GC Initial IQ ONE SQIN concept in the lab?

Carsten Fischer: Because of big improvements in monolithic frameworks, the indication areas with regard to micro-layering have increased: micro-layering is now also used aesthetically in the anterior area and it is no longer possible to imagine the digital manufacturing process without it. A system like Initial IQ ONE SQIN is absolutely necessary in order to meet all the requirements of today's modern dental technology in a dental laboratory.

Mark Bladen: Exactly. The ONE SQIN concept is meeting the requirements for microlayering of zirconia and lithium disilicate, but also brings the results to another level.

Joaquin Garcia Arranz: The new Lustre Pastes ONE provide the



With the ONE SQIN concept, a new era of ceramic layering has begun

fluorescence that is needed on monolithic frameworks like zirconia and lithium disilicate. Combine them with the SQIN ceramics and you can achieve stunning results.

Mark Bladen: And on top of that, it makes your work easier and predictable.

And what if you have never used GC Initial before? Can you still step into this new concept?

Mark Bladen: In my opinion all ceramists will be interested in the ONE SQIN system as financial demands require labs to be more efficient – faster but meeting high aesthetic demands every time. I know of many labs who would be very interested in trying this system.

Carsten Fischer: Everyone could benefit from it! It is certainly interesting

for young dental technicians who want to achieve an aesthetically predictable result without great effort or to attend several courses. But also advanced dental technicians will appreciate the ultrafine grain of the powder, good fluorescence, excellent light-optical properties in the mouth and state-of-the-art technology.

It is suitable for any laboratory that want to get into micro-layering and painting technology.

Diederik Hellingh: You do not need to be familiar with the Initial ceramic as the technique is very straightforward and predictable. From that perspective, it reminds the popular 'Paint by number' that most of us will know from our childhood: 'Make a beautiful painting the first time you try'. IQ ONE SQIN is exactly like that.

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MDT Stefan Roozen, Zell am See, Austria
MDT Roozen focuses in his work on the complex prosthetic reconstructions (both tooth and implant supported) and demanding restorations in the aesthetic and functional area. He is the author of several international publications, speaker at the Austrian Master school and speaker at international courses and congresses.



MDT Leonardo Cavallo, Sicily, Italy
Leonardo Cavallo runs a dental laboratory in Messina, Sicily where he focuses on aesthetic dentistry and implant supported restorations. His goal is to emulate the natural beauty of natural teeth.

What makes the synergy between the Lustre Pastes ONE, SQIN ceramics and Spectrum Stains unique in this concept?

Joaquin Garcia Arranz: It is a fully comprehensive concept that fits today's trend of monolithic full ceramic restorations.

Carsten Fischer: The concept is well-coordinated and in its total provides very aesthetic results. And that without extreme effort!

Michael Brüsich: All components are simply optimally adjusted to each other. There is no comparative or better material with these excellent characteristics available on the market at the moment.

GC always develops products with the users' needs in mind. What about GC Initial IQ ONE SQIN? What is the added value here?

Leonardo Cavallo: The ceramic is very dense and is easier to manage and to work with.

The material contracts less during firing and this makes it possible to work much faster. It adds fluorescence to zirconia and lithium disilicate monolithics, which is necessary to copy natural teeth.

Carsten Fischer: The colour accuracy and reproduction of V-shades are absolutely predictable with the use of the IQ ONE SQIN concept. When you apply the colours to the surface, you can see that they fit - you can really see what you get. The colours are very warm and with the correct firing, an extremely homogeneous result is obtained.

Mark Bladen: I also really like the special modeling liquid. It gives a high degree of control to shape and even build natural surface characterizations that remain after firing in the super-dense and qualitative ceramic surface, which – on top of that - is auto-glazed.

Stefan Roozen: The work process has been made so much faster and easier. Because of the low shrinkage and shiny effect after firing, corrections are hardly necessary.



Surface texture can be easily adjusted with Initial IQ SQIN



Carsten Fischer: Compared to other systems, it is the most modern material science concept on the market. You do not have to learn a new technique (such as with competitive products) but can stay in your proven ceramic layering technique with the SQIN powders.

Patric Freudenthal: I really like that the surface texture can be adjusted so easily. I especially like it for single crowns; it is faster and much easier to control.

Michael Brüsich: And for large bridge constructions, it is particularly interesting that you can achieve this level of aesthetics with a minimal layer thickness.

Which three reasons would you state to convince your technician colleagues to step into this new GC Initial IQ ONE SQIN concept?

Joaquin Garcia Arranz: One, it is faster. Two, it is easier. And three, it's more stable.

Patric Freudenthal: I would say "less is more"; less products but more or less the same result. On top of that, it is an easy-to-use and a very logic system.

Mark Bladen: I second that! It is easy to use and understand and the compact kit contains all that's needed to reproduce any shade or features needed to copy every dentition. The results are better than with any other system on the market.

Carsten Fischer: First: time saving! Next to that, the predictability of results, including the colour, warmth, light dynamics and aesthetics. Last but not least, the functional properties: it renders homogeneous surfaces that are clearly more antagonist-friendly. In my opinion, no other manufacturer on the market can offer this quality of surfaces at the moment. A perfect development by Michael Brüsich and the GCE & Klema team. TOP!



One system for multiple indications