

VITA ADIVA IA-CEM Luting Composite: Discover New Possibilities with All-Ceramic Materials!



Prof. Dr. Alexander Hassel
Mannheim, Germany

Warm, tooth-colored opacity gives you freedom to choose with monolithic indications

Until now, discolored tooth preparations, metallic pin-preparation structures and abutments, meant that options were limited when it came to choosing an all-ceramic restoration. An opaque framework structure first had to cover this dark area before the natural hard tooth substance could be reproduced using translucent veneering ceramics. As a result, this automatically makes preparations more invasive in order to create space for this visual masking. Feldspar or glass ceramics that offer better translucency, plus the more translucent variants of zirconia, could not be used monolithically in such cases, even where they had been the material of choice.

The ultra-opaque and tooth-colored luting composite VITA ADIVA IA-CEM now enables the required visual masking during placement. This opens up new possibilities for prostheses, giving practitioners complete freedom in terms of indications when selecting all-ceramic materials. In his research work and clinical practice, Professor Alexander Hassel from Mannheim, Germany, strongly focuses on the topic of tooth shade. In his opinion, the right shade effect is the key to successful restorations. In this interview, he talks about his practical experience and the new possibilities during extraoral and intraoral placement with the bright, tooth-colored luting composite for targeted coverage.

What makes VITA ADIVA IA-CEM unique compared to other adhesive bonding systems?

Prof. Dr. Alexander Hassel: The extremely high opacity is what is special. VITA ADIVA IA-CEM is completely opaque, so it reliably blocks the shade effect of the preparation. At the same time, the color of the luting composite is not cool white. As a result, restorations do not appear lifeless from within. The warmer, tooth-colored shading of the fully adhesive luting composite, in combination with the reliable

opacity is unique. VITA ADIVA IA-CEM provides me with the lifelike coverage I need for discolored or metallic preparations to achieve highly esthetic all-ceramic restorations.

What clinical possibilities are available when selecting all-ceramic materials as a result of the warm, tooth-colored opacity?

Prof. Dr. Alexander Hassel: Multiple preparations with different levels of discoloration, which I would like to restore without using an

opaque framework structure, are a particular challenge. With VITA ADIVA IA-CEM, I can blend the shade effect of the restorations. In other words, I can use monolithic ceramic restorations that are generally more translucent and I don't need to additionally mill the tooth to create space for a framework structure. Also, with adhesive bridges, I can mask the metal wings from the palatal angle using the adhesive bonding. The gray shimmer is blocked.

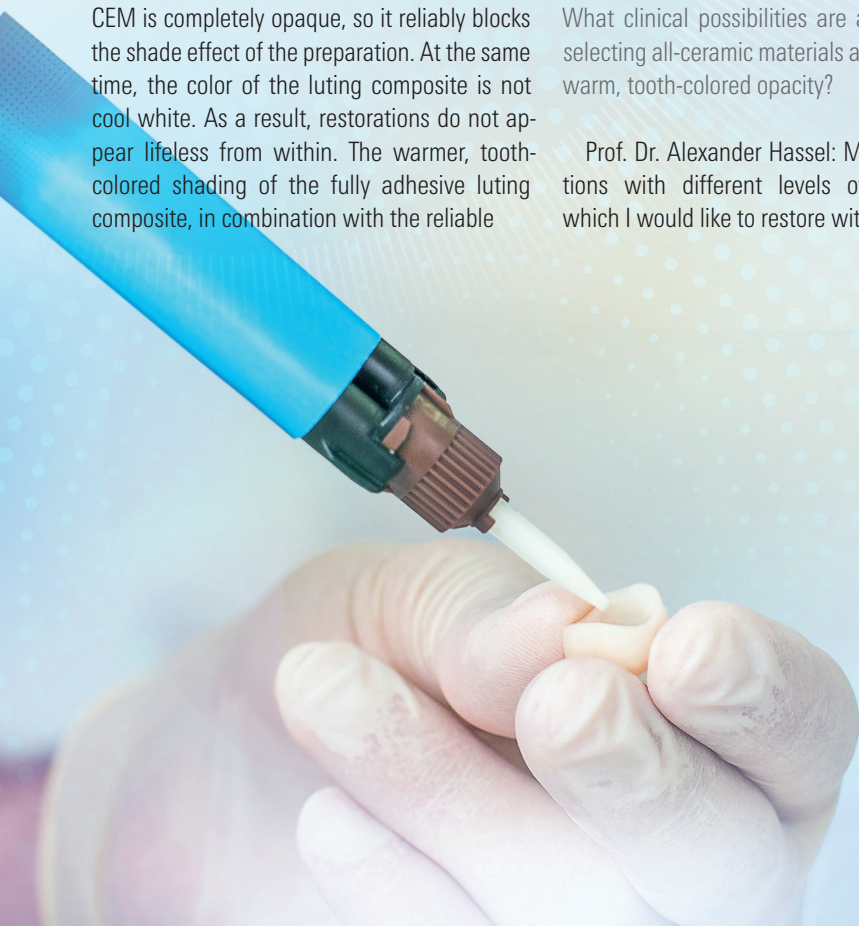


Fig. 1: Metal-ceramic restoration with irritated gingiva at tooth 11 and 21.



What materials can be bonded together adhesively? What needs to be considered during conditioning?

Prof. Dr. Alexander Hassel: VITA ADIVA IA-CEM can be used for bonding in the laboratory, as well as for intraoral placement of any restoration material, whether metal, zirconia or any other all-ceramic material. Obviously, the restorations must be appropriately conditioned. I sandblast metal, I clean and degrease zirconia and I etch all other ceramics using hydrofluoric acid. The various primers are then all available, chemically adapted and clearly presented in the fully adhesive luting system VITA ADIVA FULL-ADHESIVE.

How do you ensure that the shade effect is correct in the end when the luting composite and the restoration are combined?

Prof. Dr. Alexander Hassel: I found a way to test the final shade effect during try-in or when wearing restorations on a trial basis. I noticed that the opaque, eugenol-free temporary cement Temp-Bond NE has approximately the same shade effect as VITA ADIVA IA-CEM. I tested this with cured material samples and followed up with clinical tests. Temporary and final placement were very similar. As a result, the temporary cement gives me a preview of the final shade effect, making the process predictable.

How significant is VITA ADIVA IA-CEM in your practice? What would you miss most without this luting composite?

Prof. Dr. Alexander Hassel: When it comes to more translucent restorations without a masking framework structure in the esthetic zone, VITA ADIVA IA-CEM now plays a crucial role in restorative success. Without this thin but crucial opaque layer of luting composite, I would be missing something for the difficult clinical cases. I could only resolve certain situations with compromises and I would feel less confident about the treatment. In practice, I want as little unpredictability as possible. VITA ADIVA IA-CEM offers significant help in this respect.



Fig. 2: Preparations with different levels of discoloration following removal of the old crowns.



Fig. 3: Shade effect of the vestibular veneered zirconia crowns during try-in without cement.



Fig. 4: The blended shade effect following final placement with VITA ADIVA IA-CEM.