



**Magicap® & Magic® Composite**  
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### **Data sheet >>> Technical Requirements Magic® Composite Full Crown / Status 09.2017**

- For reasons of stability the indication range is limited to single crowns. The fabrication of splinted crowns or bridges made entirely of Magic® Composite is not permissible.
- A maximum layer thickness of 1.2 mm must not be exceeded, as complete curing of the material cannot be assured otherwise. In case of layer thicknesses >1.2 mm, one must work with interim curing or a sub-structure. Additional basal curing is recommended as a matter of principle for full crowns.
- The minimum layer thickness of the crown must not fall below 0.4 mm and not below 0.2 mm for the region of the crown margin.
- As layer thicknesses must not fall below 1.2 mm, we recommend anatomically reduced, cusp-supported preparation forms. Chamfered or shoulder preparations are adequate as composite preparations. Unsuitable preparations, for example gutter or tangential preparations, can lead to failure.
- Layer thicknesses <1.2 mm must not be achieved by blocking out the stump, e.g. building up the cusp with wax, as the cavity would lead to a defined breaking point when using adhesive mounting systems.
- In general, composite jacket crowns must always be fabricated from a combination of elastic dentine and hard incisal material. In the occlusal region, the uppermost layer must be made of incisal material to achieve sufficient abrasion resistance. Paste composites must always be used for reasons of stability, flow materials do not provide sufficient stability for the crown.
- The light curing unit must be equipped with a light source with a wavelength between 350 - 500 nm and with its maximum intensity at 470 nm. It is essential to observe the notes on the various polymerisation units to ensure complete curing of the material. The required polymerisation times result from the light performance of the unit and must be determined individually.
- To ensure sufficient compaction of the crown surface, this needs to be polished with conventional polishing pastes.
- The user is obliged to check the product for its suitability for the intended indication prior to use. For example, plastic jacket crowns are generally not suited for bruxism patients and tooth grinders.