

Admira Protect – Demineralisation

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Admira Protect, the Ormocer® protective varnish, closes open dentine tubules to effectively treat the cause of cervical hypersensitivity. In addition to being painful, exposed dentine has an increased risk of developing caries. Good and stable protective varnishes should therefore offer effective protection from demineralisation.

Demineralisation of radicular dentine (University of Halle-Wittenberg)

The effect of several dentine sealants *in situ* was evaluated at the University of Halle-Wittenberg.^[1] Extracted human molars were cleaned, sterilised and sawed into small test specimens. 9 removable mandibular clamps were fitted with 5 test specimens on each buccal side. Four different protective varnishes plus a control group were applied to 9 test subjects according to the manufacturer's directions. The individuals wore the test specimens day and night for five weeks, only removing them for meals where the clamps were stored in a 10% sucrose solution. The individual dental care of the test subjects was conducted with a fluoride-free tooth paste after removing the clamp. The clamp itself was cleaned once a day only on one side with fluoride tooth paste and a brush. After the test period, 2 slices were sawed from each test specimen from which the depth of demineralisation was determined with a polarisation microscope. The findings are represented in Fig. 1.

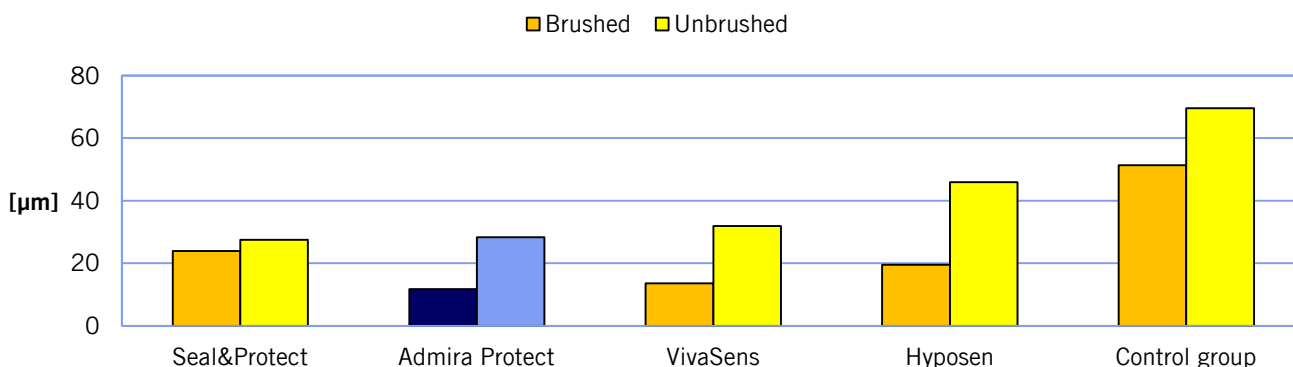


Figure 1: Depth of demineralisation in situ after application of 4 different desensitizers

The findings show that Admira Protect significantly reduced demineralisation of the dentine in both hygiene situations. The high resistance to abrasion additionally guarantees that this protection is not removed by tooth brushing. Rather, the combination of Admira and normal oral hygiene with a fluoride tooth paste yields a positive result.

Conclusion: Admira Protect is a reliable treatment for addressing the cause of sensitive tooth cervixes. Thus, it offers effective protection from demineralisation, especially when used in combination with the recommended appropriate dental care.

[1] Gernhardt, Schmelz, Bekes, Schaller, *Int. Poster J. Dent. Oral Med.* **2006**, *8*, Poster 336