

# Restorative Clinical Cases

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## Class V restoration with SDR<sup>®</sup> Plus on tooth 12 & 13

A 61-year-old male patient presented to the Creighton University School of Dentistry for restoration of facial lesion on teeth #12 and #13.

The preparation was isolated with gingival retraction cord and then restored using Prime&Bond NT and SDR Plus. This case demonstrates that the handling and bulk placement of SDR Plus can make restoring Class 5 cavities more efficient.



**Dr. Jason Goodchild**  
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Dr. Jason H. Goodchild graduated from the University of Pennsylvania School of Dental Medicine in 1998. Dr. Goodchild joined Dentsply as a Research Dentist in 2012, and now serves Dentsply Sirona as Clinical Education Manager, with a focus on North America.

He is also Associate Professor and Chairman, Department of Diagnostic Sciences, Creighton University School of Dentistry, Omaha, Nebraska. Dr. Goodchild combines active clinical surgery in restorative dentistry at his practice in Havertown, Pennsylvania, research work with numerous publications, and diverse editorial positions.

## Class V restoration with SDR<sup>®</sup> Plus on tooth 12 & 13



Completed preparation of teeth #12 & #13 facial. The preparations have been isolated using gingival retraction cord that was carefully placed to not only displace the gingiva for visualization of the cavosurfaces, but also to achieve and maintain hemostasis.



34% phosphoric acid is applied to both preparations for 15 seconds. Care was taken to avoid over-exposure of phosphoric acid with the surrounding gingival tissue.



The phosphoric acid was rinsed off the preparations for 10 seconds. The teeth were left slightly moist.



Consepsis Chlorhexidine Antibacterial Solution (Ultradent) was thoroughly scrubbed into the preparations and air dried.



Prime&Bond NT was generously applied and the entire preparation remained wet for 20 seconds before removing the excess solvent with a 5 second gentle stream of air. The adhesive was light cured for 10 seconds with a dental curing light capable of spectral output greater than 300mw/cm<sup>2</sup>.



Placing SDR Plus into the preparation. Tooth #12 was not 4mm deep but because of its larger dimensions was restored with 2 incremental layers. Due to the compula tip of SDR Plus, it was easy to accurately place the material and avoid gross excess.

### Class V restoration with SDR® Plus on tooth 12 & 13



SDR Plus was light cured with a dental curing light for 20 seconds.



As the depth of the preparation on tooth #13 was less than 4 mm, it was restored using only a single layer of SDR Plus.



The final restorations of teeth #12 & #13 facial with SDR Plus. The restorations were finished with a fluted composite finishing bur and the Enhance Finishing System. They were polished with felt points. Note the excellent esthetics of tooth #12, esthetics of tooth #13 were compromised due to the existing PFM crown.

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## Conclusion and references

In this case, two challenging Class 5 cavities were restored quickly and effectively. Despite the poor esthetics of tooth #13, because of SDR Plus's unique handling, we not only could easily place the material without it running or slumping, but we achieved excellent marginal adaptation.



**SDR® Plus**  
Bulk Fill Flowable

