SDR®
Posterior Bulk Fill Flowable Base

The unmatched bulk fill material
SDR® – Smart Dentin Replacement

SDR® filling technique – simple, fast and efficient

Up to 40% placement time saving vs. layering technique

Self-leveling consistency for excellent cavity adaptation

SDR® flow-like consistency results in excellent cavity adaptation

Up to 60% less shrinkage stress

The unique and patented formulation of SDR® leads to a controlled polymerization. A modulator was included helping the monomers to form a more relaxed network. This compensates the effect of volume shrinkage leading to less shrinkage stress (force). Therefore SDR® can be placed in 4 mm layers avoiding the cumbersome and time consuming layering technique.

Shrinkage Stress: Shown as a ratio of SDR® material vs. competitors

SDR® is chemically compatible with methacrylate-based composites and adhesives

1 Not a registered trademark of Dentsply Sirona.
2 Internal Data. Available upon request, see contact details.
The ideal restorative ...

...for lining and bulk-fill in Class I/II

- Up to 4 mm increments
- Excellent cavity adaptation, even in undercuts
- Conventional Flowable as liner is no longer needed – reduced complexity

...for post-endodontic treatment

Reliable adhesion to dentin in high C-factor endo cavities

- Zero pre-test failures
- Reliable bond

“When high C-factor cavities are filled in bulk, the choice of the composite will be important in order to avoid adhesive debonding.”³

“The micro tensile bond strength decreased significantly when 4 mm cavities were filled in bulk, except for the bulk fill composite SDR®, which could maintain its bond strength.”⁴

Better coronal seal

- Zero leakage into root canals
- Enhances the success rate of endodontic treated teeth

“SDR® ensures a tight seal of the endodontic access cavity – an important factor for the long-term endodontic treatment success.”

Prof. Dr. Schirrmeister, University of Freiburg, Germany

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1 Not a registered trademark of Dentsply Sirona.
...for primary posterior dentition

Simple, fast and reliable.

- Increments up to the occlusal surface – no capping needed
- Universal translucent shade matches well to primary dentition
- Fast and easy application technique, ideal for children

“SDR® reduces chairside time – a major advantage, especially when it comes to the treatment of children.”
Dr. Vicky Ehlers, University of Mainz, Germany

...for pit and fissure sealing and core build-up

- Flows easily in all fissures
- Precise application with thin canula
- Fast application
- 4 mm depth of cure

1 Not a registered trademark of Dentsply Sirona.

Multiple years of clinical success

5 Year Clinical Trial Results

JWV van Dijken and U. Pallesen
The study compared 100 Class I and Class II restorations using SDR® and Ceram-X® in the bulk-fill technique against the same number of restorations using just Ceram-X® in the layering technique.

The observers conclude:
• Both restorative techniques showed good surface, marginal stability and color stability
• No statistically different annual failure rates between bulk-fill and layering technique were observed
• No post-op sensitivities have been observed at all

For more information about scientific studies visit www.dentsply.eu/SDR

36 Month Clinical Trial Results

J. Burgess and C. Munoz
• No failures attributable to SDR®
• No post-operative sensitivities
• No adverse effects on gingiva in contact with SDR®

J.W.V. van Dijken and U. Pallesen
• Split mouth design
• 38 pairs Class II and 15 pairs Class I restorations were placed
• Xeno® V/Ceram-X® with and without SDR®
• High success rate for both groups
• No differences between layered and bulk-filled restorations

"There were no observations of recurrent caries associated with the low stress resin and no reports of adverse events throughout the duration of the trial."

"The 4 mm bulk-fill technique with the flowable resin composite SDR® showed high clinical effectiveness, which was comparable during the 3-year follow-up with the 2 mm resin composite layering technique."

For more information about scientific studies visit www.dentsply.eu/SDR
Combine SDR® with Palodent® V3 and ceram.x® universal

Palodent® V3
Sectional Matrix System

- Predictable tight contacts
- Tight gingival seal
- Less flash, less finishing
- Easy-to-use system

ceram.x®
Universal Nano-Ceramic Restorative

- Excellent adaptation and sculptability
- Ingenious simple shading system: 5 shades to cover the full VITA® range
- Fast and easy polishing for outstanding gloss
- Natural esthetics

“The combination of Palodent® V3 and SDR® allows easier, faster and predictable placement of Class II restorations. There’s no better way to place a Class II restoration.”
Dr. Reis, University of Guarulhos, Brazil

Ordering Information

SDR® Intro Kit 606.03.022
with Prime&Bond active™
45 Compula® Tips (0.25 g each) Universal Shade
1 x SDR® Storage Box, 1 x 2.5 ml Prime&Bond active™,
1 x CliXdish™, 1 x Compules® Tips Gun

SDR® Refill 606.03.002
15 Compula® Tips (0.25 g each) Universal Shade

SDR® Eco Refill 606.03.003
50 Compula® Tips (0.25 g each) Universal Shade

For more information about Palodent® V3 and ceram.x® universal visit www.dentsply.eu