

DENTSPLY

Dyract[®] **≡** XTRA

The Evidence-Based Restorative

Dyract®eXtra is a light-curing restorative material for all cavity classes in front and posterior teeth.

eXtra Care

Dyract eXtra restorations continuously release fluoride ions and act on the tooth restoration interface as an acid buffer.

The specific properties of Dyract eXtra restorative material result from combining fluoride containing reactive filler glasses with acid modified monomers patented by DENTSPLY.

Evidence-Based

With more than 170 million Compules® tips sold, the Dyract restorative family¹ belongs to the most frequently used materials worldwide. Impressive results from 45 clinical investigations, more than 440 scientific publications and 12 years of success make the Dyract restorative family an exemplary role model in evidence based dentistry.

¹ This includes Dyract, Dyract AP and Dyract eXtra.

APPLICATION PROPERTIES

Optimal handling properties result in the best possible application and finishing efficiency.

With only 6 shades, chosen for their relevance (SIX for ALL), the complete shade range of the Vita®² shade range can be restored satisfactorily. Dyract eXtra restoratives only need extremely short curing times.

Dyract eXtra restorative can be used very successfully even with the latest and fastest adhesives such as Xeno®III Single Step Self-Etching Adhesive and Prime&Bond®NT, Nanotechnology Dental Adhesive.

DELIVERY FORM

Dyract eXtra restorative material is pre-dosed in Compules tips for direct intraoral application.

² Vitapan® classical shades of Vita®, Vita® and Vitapan® are a registered trademark of Vita Zahnfabrik, Bad Säckingen, Germany.

CAUTION: For dental use only.

COMPOSITION

- Urethane dimethacrylate (UDMA)
- Carboxylic acid modified dimethacrylate (TCB resin)
- Triethyleneglycol dimethacrylate (TEGDMA)
- Trimethacrylate resin
- Camphorquinone
- Ethyl-4-dimethylaminobenzoate
- Butylated hydroxy toluene (BHT)
- UV stabiliser
- Strontium-alumino-sodium-fluoro-phosphor-silicate glass
- Highly dispersed silicon dioxide
- Strontium fluoride
- Iron oxide and titanium dioxide pigments

INDICATIONS

Dyract eXtra is indicated for all cavity classes in anterior and posterior teeth. Dyract eXtra restorative material is particularly recommended for the treatment of children, adolescents and elderly and other patients with an increased risk of caries.

CONTRAINDICATIONS

- Use with patients who have a history of severe allergic reaction to dimethacrylate resins or any other of the components.
- Direct application to dental pulp (direct pulp capping).
- If contamination with saliva, blood, or sulcus fluid cannot be avoided during application.
- Class I and II cavities the width of which exceeds $\frac{2}{3}$ of the intercuspal distance.
- Core build-up for full ceramic crowns.

WARNINGS

1. Dyract eXtra restorative material is mildly acidic in nature and contains methacrylate monomers. Avoid prolonged or repeated contact of uncured material with skin (allergic contact dermatitis), oral soft tissues, and eyes.
2. Eye contact: Dyract eXtra restorative material contains methacrylates which may irritate the eyes. Avoid contact of the material with the eyes, and in case of contact, rinse immediately with plenty of water and seek medical attention.
3. Skin contact: Dyract eXtra restorative material is mildly acidic and contains polymerisable monomers which can cause skin irritation or skin sensitisation (allergic contact dermatitis) in susceptible individuals. If contact with skin occurs, immediately wash well with soap and water. If a skin rash and sensitisation or other allergic reactions occur discontinue use and seek medical attention.
4. Oral mucosa contact: Avoid contact of uncured material with oral soft tissues. If accidental contact occurs, flush mucosa with plenty of water and expectorate water. If sensitisation of mucosa persists, seek medical attention immediately.

PRECAUTIONS

1. Wear suitable protective eyewear, clothing and gloves. Protective eyewear is recommended for patients.
2. Use a gentle, even motion when exerting pressure on the Compules tips applicator gun. Use of excessive or sudden force could create a potential hazard.
3. Keep out of direct sunlight. To be stored at temperatures between 10 °C and 24 °C.
4. Humidity can adversely affect the properties of unsealed Compules tips. Therefore, always keep Compules tips sealed in their blister pack until use.

ADVERSE REACTIONS

Product may irritate eyes, skin and mucous membranes.

- Eye contact: Irritation and possible corneal damage.
- Skin contact: Irritation or possible allergic reaction. Reddish rashes may be seen on the skin.
- Mucous membranes: Inflammation, edema, sloughing (see WARNINGS).

INTERACTIONS WITH DENTAL MATERIALS

Eugenol-containing dental materials should not be used in conjunction with this product since they may interfere with hardening and cause softening of the polymeric components of the material.

STEP-BY-STEP INSTRUCTIONS

1. Shade Selection

Shade selection is made whilst the teeth are hydrated and prior to the restorative procedure.

With only 6 shades teeth within the complete shade range of the Vita shade range can be restored satisfactorily.

Dyract eXtra is also available in two opaque shades (O-A2, O-B3). For the convenience of former Dyract and Dyract AP users, the shades B3 and C3 are available.

1. Remove any extraneous plaque or surface stain.
2. Use the Vita Lumin® Vacuum shade guide. Use the central part of the respective Vita teeth for shade selection.
3. Use the table below to select for the tooth shade determined the most suitable Dyract eXtra restorative.

Tooth shade	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
SIX for ALL	B1	A2	A3	A3.5	A4	B1	B1	A3.5	A3.5	A2	C2	A4	A4	A2	A3	C2

Alternatively use the Dyract eXtra shade guide that is available on request. The Dyract eXtra shade corresponds to and contains samples of original Dyract eXtra restorative. The colour coding dot on the shade guide matches the coloured cap on the Compules tips.

2. Cavity Preparation

1. Prepare the cavity so that no residual base or restorative material is left.
2. In cases where no cavity preparation has been carried out, clean the tooth surface with a rubber cup and pumice or prophy paste such as Nupro®. Prepare a fresh surface with a finishing bur to increase bond strength.
3. Wash surface thoroughly with air/water spray.
4. Remove rinsing water by blowing gently with an air syringe or blot-dry with a cotton pellet.
5. Do not desiccate the dentine structure.

3. Pulp Protection

For direct or indirect pulp-capping:

1. Protect the pulp or dentine close to the pulp (< 1 mm) with a hard-setting calcium hydroxide liner (e.g. Dycal®).
2. Leave the remaining cavity surface free for bonding with the adhesive.

4. Conditioning and Application of the Adhesive

Prior to the application of Dyract eXtra, the cavity shall be treated with one of the following adhesives:

- Xeno III – Single Step Self-Etching Dental Adhesive.
- Prime&Bond *NT* – Nanotechnology Dental Adhesive.

For application, please follow the directions for use of the respective adhesive.

5. Placement of Dyract eXtra

1. Insert the Compules tip into the notched opening of the applicator gun barrel.
2. Dispense Dyract eXtra directly into the prepared cavity.
3. To minimise polymerisation shrinkage in cavities, place Dyract eXtra incrementally (in 2 mm layers or less).

6. Light Curing

1. Hold the tip of the light guide as close as possible to the restoration.
2. Cure each increment separately with a light curing unit³ according to the table below.

Important: Ensure that each area of the entire restoration is exposed to the curing light.

3. Additionally cure the restoration through lingual or buccal enamel walls.

Shade	Light Curing Time in seconds for minimum 500 mW/cm ² light output and 2 mm layers
A2, A3, A3.5, A4, B1, B3, C2, C3	10
O-A2, O-B3	20

³ Check curing light for minimum curing output of at least 500 mW/cm².

7. Finishing

Commence finishing immediately after curing:

1. Remove gross excess material with fluted finishing burs or diamonds.
2. Use Enhance™ finishing and polishing instruments and interproximal finishing and polishing strips. In patients with adequate oral hygiene, the high final lustre of the restoration comes with use.

MAINTENANCE OF APPLICATOR GUN

The applicator gun can be sterilised by autoclave or cold sterilisation solution according to the manufacturers' instructions.

1. Disassembling: Partially close the applicator gun and place your thumb under the rear portion of the hinge. Push upwards and lift hinge to dismantle the applicator gun and thus expose the plunger.
2. Remove residual compomer with a soft paper tissue and a suitable solvent (70 % alcohol).
3. Sterilise the applicator gun.

4. Reassembling: Insert plunger into the applicator gun barrel, press components together and snap hinge mechanism in place.

STORAGE

Inadequate storage conditions will shorten the shelf life and may lead to malfunctioning of the product.

- Keep the product out of direct sunlight.
- Store the product at temperatures between 10 °C and 24 °C.
- Keep Compules tips sealed in their blister pack until use. Humidity can adversely affect the properties of unsealed Compules tips.
- Close unsealed Compules tips tightly with a cap. Unsealed Compules tips remain usable for about 4 weeks.

BATCH NUMBER LOT AND EXPIRY DATE

The batch number should be quoted in all correspondence, which requires identification of the product.

Do not use after expiry date.

If you have any questions, please contact:



Manufacturer:
DENTSPLY DeTREY GmbH
De-Trey-Str. 1
78467 Konstanz
GERMANY
Phone +49 (0) 75 31 5 83-0

Distributor:
DENTSPLY Limited
Hamm Moor Lane
Addlestone, Weybridge
Surrey KT15 2SE
Phone (0 19 32) 85 34 22

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