



V-Print® DT

USA | EN

Instructions for use

Carefully read instructions prior to use

Product description:

V-Print DT is a light-curing resin for the generative production of highly aesthetic denture teeth using CAD/CAM technology.

V-Print DT is a thixotropic material with an inorganic filler content of 26 % w/w.

Thanks to the Viscosity Change Technology, multiple swirling is sufficient to fill the tray with V-Print DT efficiently.

Thanks to the composite technology, the material displays good abrasion resistance. V-Print DT is fluorescent.

Indications:

- Denture teeth

Contraindications:

V-Print DT contains (meth)acrylates and phosphine oxide. V-Print DT should not be used for patients with a known hypersensitivity (allergy) to these constituents.

Patient target group:

V-Print DT is suitable for application on all patients without any age or gender restrictions.

Product performance features:

The product's performance features satisfy the requirements of the intended use and the relevant product standards.

Application

V-Print DT should only be applied by a professionally trained dental practitioner.

Shade selection:

Select the shade using the VITA® shade system in daylight if possible.

Hardware and software requirements

CAD Software ¹ dental scanner	Software for the planning and design of denture teeth. The software and dental scanner must satisfy local and current medical device specifications and allow for issuance of the patient-specific design as an STL data set. For example: - 3Shape Dental System Version 2017 or later - 3Shape Dental Scanners: TRIOS, E1, E2, E3, D500, D700, D800, D900, D750, D850, D900L, D1000, D2000
CAM-Software	Software for preparation of the print order. The part will not be modified during this process. Structures that facilitate the 3D printing are simply created. For example: - Autodesk Netfabb version 2020 or later for SolFlex 3D printing.

¹The designation Software as Medical Device SaMD includes standalone (autonomous) software that is a medical device (MD) and not part of one.

Manufacturing equipment	For example: VOVO SolFlex 170 (PowerVat) VOVO SolFlex 350 (PowerVat) VOVO SolFlex 650 (PowerVat) VOVO SolFlex 170 HD
Post-curing devices	For example: Otoflash G171

See also: accompanying list of resources or www.voco.dental/3dprintingpartners

All manuals and/or operating instructions for the respective programs, and for device, materials and/or parts manufacturers, which are required for the manufacturing process, must be observed.

Clarify ahead of time whether the programs, devices and/or objects that you intend to use have been designed and approved for the corresponding applications.

CAUTION: Non-authorized changes to the process equipment, parameters, or software could result in the V-Print DT end object not satisfying specifications.

Use:

Preparation:

For a CAD construction according to the indication the following information must be observed:

Note: Designing the connector cross section height > width

Prepare a print job using slicing software. In addition to the material-dependent construction specifications in these instructions for use, please also observe the dependencies of the positioning, support type, and fit found in our other documents, for your construction. The pertinent documents can be downloaded from the VOCO website.

V-Print DT has been conceived for a high-precision application. It is thus recommended that a small layer thickness is selected when generating the print data set.

Processing:

Use separate material containers and cleaning baths for each printing material, in order to prevent cross contamination.

Multiple swirling of the bottle improves the flow properties of the material and should be done immediately before printing.

It is important to ensure that the material is filled into the material tray as free of bubbles as possible while observing the filling level.

Start the print job observing the parameters that you previously selected.

Once the printing process has ended, a dripping time of approximately 10 minutes is recommended. Next, carefully detach the printed objects from the build platform.

In the following steps, the printed objects will need to be cleaned, dried and post-exposed, in order to guarantee the required product characteristics. A detailed explanation of the steps outlined above can be found under Post-processing.

Recommendation: Once your work is completed, transfer the remaining material from the materials container into the original container (use a stainless steel sieve if necessary). This allows for the materials container to be inspected and facilitates the optimal storage of the printing material.

Post-processing:

Cleaning

Remove support structures carefully prior to cleaning.

Remove unpolymerized resin residues on the print objects using an isopropanol (purity ≥ 98 %) soaked brush.

Next, the printed objects must be dried carefully using compressed air. If there is any resin residue on the printed object after the final cleaning, or if residue escapes from the undercuts when drying, the printed object should again be cleaned with an isopropanol (purity ≥ 98 %) soaked brush.

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Instrucciones de uso

Ler esmeradamente las instrucciones antes del uso

Post-exposure:

Conduct the post-exposure a minimum of 15 minutes after the most recent contact with isopropanol. It is important to ensure that the printed objects do not overlap or contact each other, as post-exposure would be negatively affected by the shadows that are cast.

Post-exposure can be conducted using the following devices:

Post-exposure device	Programme	
For example: Xenon photoflash unit Otoflash G171	2x 2000 flashes	After 2000 flashes, observe a cooling phase of at least 2 minutes with open lid. Next, turn over and light-cure with another 2000 flashes.

See also accompanying list of resources.

Further print objects should only be post-exposed after the device has cooled down for 10 minutes in order to avoid discoloration of the material.

Completion:

Use, for example, a fine-toothed carbide cutter to grind down the support attachments. This can also be used for subsequent elaboration of special structures.

The finishing/polishing can be performed in the same way as in analogue prosthetics.

Recommendation: Check the fit of the denture teeth first. Correct any occlusal interferences directly on the teeth.

First, smooth V-Print DT with a soft rubber tool, then lute it in the already polished denture base (see luting) and polish with a composite polishing paste in combination with goat's hair brushes and cotton/leather buffers. Work using a low speed so as to avoid excessive abrasion. If customization is planned, it is recommended not to polish the denture base until customization is complete.

The instructions for use from the manufacturers must be observed and followed.

Customization:

For a highly aesthetic restoration, the restorations can be customized, characterized or repaired at any time using a composite/ORMOCER®. Roughen the restorations surface via grinding or sandblasting (Al₂O₃, 50–100 µm, 1–2 bar). Remove abrasive material residues/dust carefully with an ultrasonic bath (70% ethanol) or steam cleaner. Then dry the restoration with air. Apply a suitable adhesive system (e.g., **Futurabond U**) in accordance with the instructions for use. Using **GrandioSO**, **Flow** o **Heavy Flow**, for example, in combination with **FinalTouch**, you can customize the restorations quickly and simply with purely lighting techniques.

The instructions for use from the manufacturers must be observed and followed.

Luting:

Preparation of adhesive surfaces:

For an optimal bond, blast the luting surface of the restoration with aluminum oxide (50 µm–100 µm, at 1 bar 2 bar). Use a suction device to prevent the accumulation of dust.

Remove abrasive material residues carefully with a steam cleaner or ultrasonic bath (70% ethanol). Then dry the restoration with air. Final cleaning with medical alcohol is possible. The instructions for use must be observed and followed.

V-Print DT must be luted with a suitable luting agent system (e.g., **CediTEC Adhesive + CediTEC Primer**). The instructions for use must be observed and followed.

Note: A transfer template or matrix can be used for the arrangement of the denture teeth.

Warnings, precautionary measures:

- Only use V-Print DT in a fully cured state. Pay attention to the finishing process.
- Contact between uncured V-Print DT and the skin/mucous membranes and eyes can cause mild irritation and should be avoided. The wearing of protective clothing is recommended. Furthermore, it is important to ensure that no vapors and/or dusts are inhaled. The wearing of a suitable mask and/or the use of suction devices is recommended.
- Our information and/or advice do not relieve you of the obligation of checking that the products supplied by us are suitable for the intended purpose.

Storage:

Storage at 59°F–82°F (15°C–28°C). Reseal bottle immediately after use. The material will cure if exposed to light. Do not use after the expiry date.

Disposal:

Dispose of the product in accordance with local regulations.

Reporting obligation:

Serious events such as death, temporary or permanent serious deterioration of a patient's, user's or other person's condition and a serious risk to public health that arise or could have arisen in association with the use of V-Print DT must be reported to VOCO GmbH and the responsible authority.

PRODUCT ORDERING INFORMATION

Bottle 500 g A1

REF 6904

Bottle 500 g A2

REF 6905

Bottle 500 g A3

REF 6906

Bottle 500 g B1

REF 6908

This material has been developed solely for use in dentistry. Processing should be done strictly according to the instructions for use.

VOCO recognizes its responsibility to replace products if proven to be defective. VOCO does not accept liability for any damage or loss, directly or indirectly, stemming from the use of or inability to use the products described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith. Descriptions and data constitute no warranty of attributes and are not binding.

CAUTION: U.S. Federal Laws restrict this device to sale by or on the order of a dentist.

No person is authorized to provide any information which deviates from the information provided in the instructions for use.

For questions or comments, please call 1-888-658-2584.

Keep this material out of reach of children.

For dental use only.

An explanation of the symbols used in labeling can be found at www.voco.dental/symbols

Last revised: 2023-11

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Descripción del producto:

V-Print DT es una resina fotopolimerizable para la fabricación generativa de dientes protésicos altamente estéticos en la técnica CAD/CAM.

V-Print DT es un material tixotrópico con un contenido de relleno inorgánico del 26% en peso. Gracias a la "Viscosity Change Technology" es suficiente agitar la botella varias veces con movimientos circulares para llenar eficazmente la cubeta de material con V-Print DT.

Gracias a la tecnología de composite, el material presenta una buena resistencia a la abrasión. V-Print DT es fluorescente.

Indicaciones:

- Dientes protésicos

Contraindicaciones:

V-Print DT contiene (met)acrilatos y óxido de fosfina. En caso de existir hipersensibilidad conocida (alergia) a estas sustancias, absténgase de aplicar V-Print DT.

Pacientes destinarios:

V-Print DT puede emplearse en todo tipo de pacientes, sin limitaciones de edad o sexo.

Características del producto:

Las características del producto cumplen los requisitos de la finalidad prevista y las normas de producto pertinentes.

Aplicación:

La aplicación de V-Print DT debe llevarla a cabo un usuario profesional cualificado y formado en odontología.

Selección de tonos:

Seleccione el tono adecuado, a ser posible con luz diurna, sirviéndose del sistema de colores VITA®.

Requisitos de hardware y software

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