

# Irix Plus

## Technical Data Sheet



### Irix Plus: Hybrid Composite Material for Permanent Restorations

Irix Plus is a photosensitive hybrid composite material for the customized production of permanent restorations such as: inlays, onlays, veneers, single crowns and bridges up to three elements by stereolithographic 3D printing.

Irix Plus is a Class IIa CE marked medical device\*.

To meet aesthetic and functional requirements, Irix Plus is available in different monochromatic shades and the exclusive Photoshade adaptive gradient. Restorations made with Irix Plus stand out for their aesthetics and high strength values. For perfect characterization, they can be customized with biocompatible products (lacquer, glaze, etc.) and/or light-curing colors.



\*Medical device in Class IIa according to Rule 5 of Annex IX, Directive 93/42/EEC.

### Features

- Precise fit
- High dimensional stability
- Superior surface quality
- Available in six shades: N, A1, A2, A3, A3.5, B1
- Available in Photoshade adaptive gradient technology

### Advice for use

Irix Plus is specifically developed for use with DWS Dfab dental 3D printers, equipped with Photoshade technology for adaptive gradient shading. To ensure optimal mechanical performance, dimensional stability, and safety of the printed restoration, the Dcure curing unit must be used, as it performs a hybrid thermal/UV treatment cycle tailored for this material. Always follow the operating instructions provided for the DWS Dfab 3D printer and curing unit. Refer to the official Instructions for Use (IFU) for detailed guidance on design, printing and post-processing procedures.

### Technical characteristics of the liquid material

Environmental data for use	22°C - 27°C - max, RH 40% - 60%
Appearance / Color	Liquid / 6 shades available
Density	1,35 g/cm <sup>3</sup>
Viscosity	~ 3000 mPa•s at 25°C

### Technical characteristics of the printed and cured material

Flexural strength (MPa) (ISO 10477)	> 100
Water sorption (µg/mm <sup>3</sup> ) (ISO 10477)	< 40
Water solubility (µg/mm <sup>3</sup> ) (ISO 10477)	< 1.4
Fatigue Test (internal method)	Test cycles (1200000), Simulated 5 years use, No fracture observed*

\*Internal fatigue test performed using chewing simulation machine CS-4.4 (SD Mechatronik). Microscopic evaluation confirmed absence of fractures after 1,200,000 cycles simulating 5 years of use

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### Restrictions of use and warnings

Irix Plus is a medical device intended exclusively for use by qualified professionals (dentists and dental technicians). For detailed information on correct use - including application methods, precautions, contraindications, and safety warnings - please refer to the official Instructions for Use (IFU) provided by the manufacturer.

### Contraindications

Do not use the device in patients with known allergies or hypersensitivity to methacrylates. Refer to the IFU for the complete list of contraindicated applications.

### Precautions and protective measures

The liquid material may cause skin sensitization and is harmful to aquatic life. Use nitrile gloves and protective goggles during handling.

Once polymerized, the solid material is not classified as hazardous.

Refer to the Safety Data Sheet (SDS) available at [www.dwssystem.com](http://www.dwssystem.com) for detailed safety information.

### Storage

Store at 5–30°C in a dry place, away from direct sunlight and heat sources. Do not use after the expiry date indicated on the label.

### Disposal

Dispose of liquid material and contaminated containers in accordance with local regulations.

Cured material can be disposed of as non-hazardous industrial waste.

Refer to the IFU and Safety Data Sheet (SDS) at [www.dwssystem.com](http://www.dwssystem.com) for detailed disposal guidance.

### Information for orders

CODE	PRODUCT	CODE	PRODUCT
10200416	IRIX PLUS N, DLT, SIZE S, SET 5	10200428	IRIX PLUS N, DLT, SIZE L, SET 3
10200417	IRIX PLUS A1, DLT, SIZE S, SET 5	10200429	IRIX PLUS A1, DLT, SIZE L, SET 3
10200418	IRIX PLUS A2, DLT, SIZE S, SET 5	10200430	IRIX PLUS A2, DLT, SIZE L, SET 3
10200419	IRIX PLUS A3, DLT, SIZE S, SET 5	10200431	IRIX PLUS A3, DLT, SIZE L, SET 3
10200420	IRIX PLUS A3.5, DLT, SIZE S, SET 5	10200432	IRIX PLUS A3.5, DLT, SIZE L, SET 3
10200421	IRIX PLUS B1, DLT, SIZE S, SET 5	10200433	IRIX PLUS B1, DLT, SIZE L, SET 3
10200422	IRIX PLUS N, DLT, SIZE M, SET 3	10200434	IRIX PLUS PHOTOSHADE A1-A3.5, DLT, SIZE S, SET 5
10200423	IRIX PLUS A1, DLT, SIZE M, SET 3	10200435	IRIX PLUS PHOTOSHADE A1-A3.5, DLT, SIZE M, SET 3
10200424	IRIX PLUS A2, DLT, SIZE M, SET 3	10200436	IRIX PLUS PHOTOSHADE A1-A3.5, DLT, SIZE L, SET 3
10200425	IRIX PLUS A3, DLT, SIZE M, SET 3		
10200426	IRIX PLUS A3.5, DLT, SIZE M, SET 3		
10200427	IRIX PLUS B1, DLT, SIZE M, SET 3		



**DWS S.r.l.**

Via della Meccanica 21 - 36016 Thiene (VI) – Italy,  
T: +39 0445 810810 - E: [info@dwssystem.com](mailto:info@dwssystem.com)

RD Printing S.r.l. via Della Meccanica 21, 36016 Thiene (VI), Italy – P.IVA / C. F. 04549820241 - [www.rd-printing.com](http://www.rd-printing.com) – [info@rd-printing.com](mailto:info@rd-printing.com)

This document is reserved for healthcare professionals as it contains information on medical devices that may create situations of danger to the health and safety of the patient if not correctly read, understood and applied by a professional