

IRIX® PLUS: INNOVATIVE 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 adaptive gradient Photoshade.

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. The so-configured prosthesis is a bespoke disposable medical device.



* Long-term invasive medical device in Class IIa according to Rule 5 of Annex IX, Dir. 93/42/EEC.

FEATURES

- Superior surface quality
- High dimensional stability
- Precise fit
- Available in six shades: N, A1, A2, A3, A3.5, B1
- Available in Photoshade adaptive gradient technology (DFAB Chairside and DFAB Desktop only)

ADVICE FOR USE

Irix® Plus is specifically developed for the use in DWS dental 3D printers XFAB 2500PD, XFAB 3500PD, DFAB Chairside, DFAB Desktop and LFAB.

Exclusively for DFAB Chairside and DFAB Desktop, the Photoshade technology provides adaptive gradient feature.

In order to increase the mechanical performances of the restorations and to guarantee their proper stability, the use of the specifically designed DCURE curing device with its thermal/UV post-treatment is recommended.

TECHNICAL CHARACTERISTICS OF THE LIQUID MATERIAL

Environmental value for use	22°C - 27°C - max, RH 40% - 60%
Appearance / Color	Liquid / 6 shades available
Density	1,38 g/cm ³
Viscosity	2500 ~ 3500 mPa•s at 25°C

TECHNICAL CHARACTERISTICS OF THE RESIN AFTER UV CURING

Flexural strength (MPa) (ISO 10477)	> 100
Water sorption (µg/mm ³) (ISO 10477)	< 40
Water solubility (µg/mm ³) (ISO 10477)	< 1.4
Application/use	Permanent restorations

Product	Test cycles	Simulated years	Test results
Irix Plus	1200000	5	None fractures observed

From the microscope pictures, no fractures are observed*

*Internal data, chewing machine CS-4.4 SD Mechatronik

Technical specification subject to change without notice. This document contains informative addressed to healthcare professionals as it deals with information that may lead to serious damages for patient's health and safety if not properly understood and duly executed. Regulations under the Italian law (Legislative Decree dated February, 23rd 2006, Legislative Decree no. 219/2006 and in general by Legislative Decree no. 46/97 as amended by Legislative Decree no. 37 dated January, 25th 2010).

DWS

Via della Meccanica 21 - 36016 Thiene (VI) - Italy
T: +39 0445 810810 - E: info@dwssystems.com



ADVICE FOR USE

Follow the operating instructions for your 3D printer in the model specified by DWS.

RESTRICTIONS OF USE AND WARNINGS

Irix® Plus is a medical device that must be strictly used by specifically trained personnel (dental technician, dentist).

The clinician must take an accurate anamnesis of the patient before proceeding with the placement of the prosthesis.

Configured following the polymerization process, the prosthesis must be placed on the patient in a properly hygienic environment. Clean the device with a disinfectant solution prior to placement on the patient.

CONTRAINDICATIONS

An accurate anamnesis of the patient must be done, with the aim to identify potential intolerances or allergies to methacrylates.

SAFETY

Device in liquid form may cause skin irritation, eye irritation, and skin sensitization.

Contact with the solidified material is not hazardous.

INFORMATION FOR ORDERS

CODE	PRODUCT
10200461	IRIX PLUS N, TUBE, SET 2
10200462	IRIX PLUS A1, TUBE, SET 2
10200463	IRIX PLUS A2, TUBE, SET 2
10200464	IRIX PLUS A3, TUBE, SET 2
10200465	IRIX PLUS A3.5, TUBE, SET 2
10200466	IRIX PLUS B1, TUBE, SET 2
10200416	IRIX PLUS N, DLT 1-2 U SIZE S, SET 5
10200417	IRIX PLUS A1, DLT 1-2 U SIZE S, SET 5
10200418	IRIX PLUS A2, DLT 1-2 U SIZE S, SET 5
10200419	IRIX PLUS A3, DLT 1-2 U SIZE S, SET 5
10200420	IRIX PLUS A3.5, DLT 1-2 U SIZE S, SET 5
10200421	IRIX PLUS B1, DLT 1-2 U SIZE S, SET 5
10200422	IRIX PLUS N, DLT 3-4 U SIZE M, SET 3
10200423	IRIX PLUS A1, DLT 3-4 U SIZE M, SET 3
10200424	IRIX PLUS A2, DLT 3-4 U SIZE M, SET 3
10200425	IRIX PLUS A3, DLT 3-4 U SIZE M, SET 3
10200426	IRIX PLUS A3.5, DLT 3-4 U SIZE M, SET 3
10200427	IRIX PLUS B1, DLT 3-4 U SIZE M, SET 3

PRECAUTIONS AND PROTECTIVE MEASURES

Avoid direct contact with skin and eyes, use protective goggles and nitrile gloves when handling the device. In case of skin contact, wash with plenty of water and soap. If skin irritation or rash occurs, contact the doctor. In case of eye contact, carefully rinse eyes with water for several minutes. If irritation persists, contact the doctor.

Detailed safety information is available in the MSDS at www.dwssystems.com.

STORAGE

Store in a cool, dry place out of direct sun light or heat source. Store at 5° - 30°C.

DISPOSAL

Refer to local regulations.

CODE	PRODUCT
10200428	IRIX PLUS N, DLT 5-6 U SIZE L, SET 3
10200429	IRIX PLUS A1, DLT 5-6 U SIZE L, SET 3
10200430	IRIX PLUS A2, DLT 5-6 U SIZE L, SET 3
10200431	IRIX PLUS A3, DLT 5-6 U SIZE L, SET 3
10200432	IRIX PLUS A3.5, DLT 5-6 U SIZE L, SET 3
10200433	IRIX PLUS B1, DLT 5-6 U SIZE L, SET 3
10200434	IRIX PLUS PHOTOSHADE, DLT 1-2 U SIZE S, SET 5
10200435	IRIX PLUS PHOTOSHADE, DLT 3-4 U SIZE M, SET 3
10200436	IRIX PLUS PHOTOSHADE, DLT 5-6 U SIZE L, SET 3

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