THE DENTAL
SOLUTIONS
COMPANY™

Dentsply Sirona

Primeprint Solution
Checklist

As of August 2022

Dear Consultant,
Dear Service Technicians,

This checklist assists you in preparing a quotation and during the smooth installation of Primeprint and Primeprint PPU to achieve the best possible customer satisfaction.

The Primeprint Solution Checklist:

• points out relevant technical requirements for a comprehensive quotation preparation

• shows the necessary technical logistic framework for a smooth installation

• provides basic information on the most important elements and functions of Primeprint Solution

Please note that this document does not replace the official Dentsply Sirona instructions for use for Primeprint, Primeprint PPU, software, and accessories.

We wish you success!

Your Dentsply Sirona Team

Customer

Contents

Prior to sale

In order to prepare a quote for Primeprint Solution, the following important parameters should be discussed and agreed with the customer. Please follow the recommendations below in order to ensure a smooth integration of Primeprint, Primeprint PPU, and the required accessories.

		Yes	No	Recommendation
PC	inLab PC* of at least version 5.0 or inLab 4 PC with performance package available	☐	☐	Include a quote for the suitable inLab PC for REF No. see pricelist
	System monitor available with a minimum resolution of 1920 x 1080, at 70 Hz	☐	☐	Include a quote for inLab system monitor **REF 60 42 548**
	Internet connection available	☐	☐	
Workstation	**General Requirement**			
	Set-up area is well ventilated**	☐	☐	
	Set-up area requirements for Primeprint			
	Loading capacity: min. 50 kg (110 lb)	☐	☐	
	Clearance height: min. 67 cm (26.37 in)	☐	☐	
	Flat and horizontal set-up area: min. 53 x 51,5 cm (20.86 x 20.27 in), (W x D)	☐	☐	
	Space between the device and the wall of at least 5 cm (1,97 in)	☐	☐	
	Guaranteed access to the mains connector (AC 100 V - 240 V, 50/60 Hz, 2.0 A - 0.85 A)	☐	☐	
	Guaranteed access to network			
	Set-up area requirements for Primeprint PPU			
	Loading capacity: min. 60 kg (132 lb)	☐	☐	
	Clearance height: min. 67 cm (26.37 in)	☐	☐	
	Flat and horizontal set-up area: min. 73 x 55 cm (28.74 x 20.27 in), (W x D)	☐	☐	
	Space between the device and the wall of at least 8 cm (3,15 in)	☐	☐	
	Guaranteed access to the mains connector (AC 100 V - 240 V, 50/60 Hz, 4.2 - 2.2 A)	☐	☐	
	Guaranteed access to network	☐	☐	

* inLab CAM Software is recommended to be installed on inLab PC.
** For Primeprint Solution a dedicated fume cupboard is not required. A well ventilated room is generally recommended.

If relevant, include further components in your quotation or contact other service providers together with your customer.

		Yes	No	Recommendation
Workstation	**Set-up area for accessories**			
	Space for at least one Primeprint Box 110 x 230 x 210 mm (4.33 x 9.06 x 8.27 in), (W x D x H)	☐	☐	
	Space for at least one Material Unit 280 x 190 x 120 mm (11.02 x 7.48 x 4.72 in), (W x D x H)	☐	☐	
	Space for at least two Washing Containers* each 110 x 230 x 210 mm (4.33 x 9.06 x 8.27 in), (W x D x H)	☐	☐	
Nitrogen	Space for a nitrogen bottle	☐	☐	
	Nitrogen with a purity of 2.6 which equals 99,6 Vol.-% available	☐	☐	If not: Contact a specialist seller and request a quote
	Additional accessories for the nitrogen supply:	☐	☐	If not: Contact a specialist seller and request a quote for a hose or an adapter that suits the current set up
	• Pressure regulator and manometer to regulate pressure to 4 to 8 bar			
	• Primeprint PPU comes with a 5 m (196,85 in) hose (ø 6 mm / 0,24 in), Push-in connector for 6 mm hoses with a G 1/4" inner thread, 5/16" x NPT ¼" Push-in connector with an external thread, Push-In Reducer 5/16" x 6 mm and sealing cord. Depending on the individual set up additional accessories are needed.			
Cleaning agent	Isopropanol 99% available	☐	☐	If not: Contact a specialist seller and request a quote

* Two Washing Containers per material

Prior to installation

We recommend checking the conditions onsite prior to installation. This will ensure that everything runs smoothly on the day of installation. The most important points to consider are listed in the checklist below.

A. Contact list

Dealer

Name: _____

Telephone: _____

E-mail: _____

IT administrator

Company: _____

Name: _____

Telephone: _____

E-mail: _____

Nitrogen supplier

Company: _____

Name: _____

Telephone: _____

E-mail: _____

Customer

Name: _____

Street: _____

Zipcode/town: _____

Telephone: _____

E-mail: _____

B. Date of planned installation

Date: _____ Time: _____

If necessary postponement to:

Date: _____ Time: _____

C. Structural requirements

Transport	Yes	No
Vehicle booked	☐	☐
Transport for delivery to the installation site has been clarified. Packaging dimensions/weight: • Primeprint: 830 x 620 x 1080 mm (32.68 x 24.41 x 42.52 in) (W x D x H) at 62 kg (136 lb) • Primeprint PPU: 830 x 620 x 1080 mm (32.68 x 24.41 x 42.52 in) (W x D x H) at 72 kg (158 lb)	☐	☐
Elevator available	☐	☐
The necessary transport staff has been organized (2 persons)	☐	☐

Set-up area	Yes	No
The minimum requirements for the Primeprint set-up area are fulfilled (see "prior to the sale")	☐	☐
The minimum requirements for the Primeprint PPU set-up area are fulfilled (see "prior to the sale")	☐	☐
The minimum space requirements for Primeprint Box, Material Unit and Washing Containers are fulfilled	☐	☐

Connections	Yes	No
Pressure regulator available to reduce output pressure of the nitrogen to 4 to 8 bar	☐	☐
Manometer available to check the supplied pressure of the nitrogen	☐	☐
Hose with a diameter of 6mm or 6mm adapter is available	☐	☐
Power sockets for PC, Primeprint and Primeprint PPU are available and freely accessible	☐	☐
Network sockets for PC, Primeprint and Primeprint PPU are available and freely accessible	☐	☐

Comments/measures:

D. IT infrastructure

Hardware	Yes	No
PC with minimum hardware requirements available (see "prior to sale" and manufacturer information)	☐	☐
System monitor available (see "prior to sale")	☐	☐

Network	Yes	No
IT administrator is available on the day of installation (recommendation: Contact the IT administrator during the installation)	☐	☐
Internet access for activating software licenses available	☐	☐
Designated CAM PC is already integrated in the network	☐	☐
Network with DHCP server available	☐	☐
Automatic or static IP assignment in the network	☐ Automatic	☐ Static
TCP/IP address range	. . . . -	
Subnet mask	. . . . -	
Network connections with RJ45 connectors available close to each machine (min. 100 Mbit/sec; optimal 1 GBit/sec)	☐	☐
Central storage location (shared network drive) available in network for restoration data	☐	☐
Check availability of a PC or server that runs 24/7 (recommendation: Use an inLab PC or a server)	☐	☐

Software	Yes	No
Ensure that all software requirements are met at the customer site. Observe the current manufacturer's specifications.	☐	☐
Software type and version:		

Comments/measures:

E. Equipment recommended on day of installation

Equipment	Yes	No
Trolley available	☐	☐
Drill is available to drill holes to relocate wiring connections through worktops	☐	☐
Test files (*.cam or *.stl) available for test printing and post processing	☐	☐
Printing material is ordered and available on the day of installation	☐	☐
Digital sliding caliper for measuring first print job	☐	☐

Day of installation

On the day of installation, we recommend following the individual steps described in the Primeprint and Primeprint PPU user manual. In addition, go through the following installation protocol together with the customer. Ensure that printing material is available on site on the day of installation.

General	Yes	No
The user manual was handed over and the download of the instructions for use/software updates from the Dentsply Sirona homepage was mentioned	☐	☐
inLab CAM Service was installed correctly and is running	☐	☐
inLab CAM Software was installed correctly and licenses are activated	☐	☐
Primeprint was installed as per the instructions for use	☐	☐
Primeprint PPU was installed as per the instructions for use including securing and connecting the nitrogen bottle following the supplier information and loosening the transport lock	☐	☐
The manometer shows a nitrogen pressure of 4 to 8 bar	☐	☐
Primeprint can be started without any errors	☐	☐
Primeprint PPU can be started without any errors	☐	☐
The file exchange between the CAD Software and the CAM Software works flawlessly in the given folder/network structure	☐	☐
An application was printed and post processed without errors (test cross, measurable)	☐	☐

Briefing on inLab CAM key software functions	Yes	No
Creation of new production orders	☐	☐
Import of restoration elements in *.CAM or *.STL format	☐	☐
Selection and placing of elements on the building platform	☐	☐
Positioning and adjustment of support structures	☐	☐
Setting detail level	☐	☐
Check CAM remote workflow	☐	☐

Maintenance and machine parts	Yes	No
Explanation of the different materials and the color coding system	☐	☐
Explanation of cartridges, Material Unit, Primeprint Box, and Washing Containers and briefing on their usage	☐	☐
Briefing on changing the filters	☐	☐
Briefing on cleaning agent handling	☐	☐
Briefing on nitrogen handling	☐	☐
Explanation of key error messages	☐	☐

DS Core Care service & support*	Yes	No
Equipments registration on Siroforce (please be aware the service package will be available only for registered equipments)	☐	☐
Explanation of service package	☐	☐
DS Core Care flyer customer handover	☐	☐

Conclusion	Yes	No
Contact information for ordering consumables and servicing was provided	☐	☐
The customer's attention was drawn to the "Cleaning and Maintenance" instructions (see manufacturer information)	☐	☐

* Service is subject to country availability.
  Please contact your local Dentsply Sirona representative.

Cleaning and maintenance

Recommended maintenance intervals for Primeprint

Before every printing process
• Ensure material unit is locked
• Ensure cartridge is inserted and opened

Weekly
Check the glass pane of the light engine for resin residuals or other pollution and clean it if necessary. If the material unit is exchanged several times a week it is recommended to check it each time.

Monthly
• Exchange the inserted sponge in Primeprint Box
• Clean Primeprint Box with Isopropanol
• Clean the edge of the building platform with Isopropanol

Quarterly
• Check the collecting container for resin and if necessary clean it

Yearly
• Annual maintenance carried out by a service technician

On request of the system
• Exchange the activated carbon filter
• Exchange the cartridge
• Exchange the foil in the vat

Before changing the print material
• Thoroughly clean the vat if it has been used for a different material before

Calibration
• The unit is calibrated at the factory

Recommended maintenance intervals for Primeprint PPU

Before post processing
• Ensure washing containers are unlocked
• Ensure that the cleaning agent fitness shown on the display is sufficient
• Ensure nitrogen bottle is opened and connected to the system

Weekly
• Check the ease of movement of the float magnet
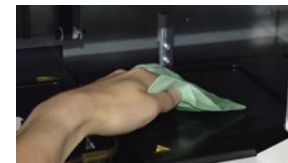
Monthly
• Check the cover of the light chamber for resin residuals

Yearly
• Annual maintenance carried out by a service technician

On request of the system
• Exchange the activated carbon filter
• Exchange the ozone filter
• Exchange cleaning agent
• Exchange the nitrogen bottle
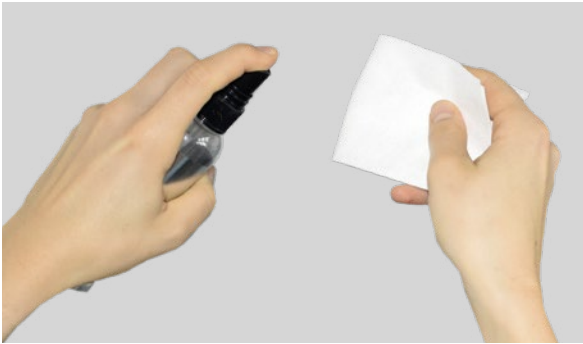• Clean the washing containers

When changing the print material
• Exchange washing containers

Calibration
• The unit is calibrated at the factory

Tips for cleaning and maintenance

Clean the glass pane with Isopropanol if it is contaminated with resin, with lens cleaner (Purosol) and a microfiber cloth.

The level of the cleaning agent in the washing containers must always be between min and max.

The washing container can be locked (1) or unlocked (2). It is recommended to lock the washing containers when they are not used to reduce the loss of cleaning agent by evaporation.
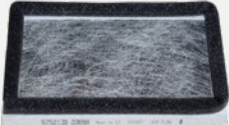
(1)

(2)

The Primeprint Solution material cartridge comes with colored stickers that can be applied to the handles of the washing containers and to the left side of the material unit vat. This provides a visual assignment of the vat and the washing containers.

Observe the local regulations for the disposal of all operating materials generated during the use of the Primeprint 3D printer such as cartridges, gloves or cleaning utensils.

Primeprint Solution

Accessories and Consumables

Product		REF.
	Primeprint Activated Carbon Filter	67 47 823
	Primeprint PPU Activated Carbon Filter	67 45 603
	Primeprint PPU Ozone Filter	67 52 138
	Primeprint Box	67 44 895
	Primeprint Washing Container	67 45 546
	Primeprint Material Unit	67 44 903
	Transport Container Insert, 5 pieces	67 54 241
	Foil with Clamp Frame, Repl.	67 44 911

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Accessories and Consumables

Product		REF.
	Platform holder	67 56 402
	Side Cutter	67 58 663
	Spatula DS	67 58 655
	Individual Curing Carrier	67 45 074
	Collecting Container, Repl.	67 57 434
	Microfiber Cloth	68 02 917
	Purosol	67 82 481
	Playing cards	67 53 631

Primeprint Solution Material

Product		REF.	Description	Medical device Class MDR	Medical device Class FDA
	Primeprint Tray	67 40 216	Resin for individual impression trays	I	I
	Primeprint Guide	67 40 232	Resin for surgical guides	IIa	I
	Primeprint Splint	67 40 240	Resin for hard splints	IIa	I
	Primeprint Model	67 40 257	Resin for working models, situation models and control model	TEC resin	TEC resin
	Primeprint Model T	67 40 224	Resin for thermoforming models	TEC resin	TEC resin
	Primeprint Cast	67 40 265	Resin for dental casting objects for precision casting	TEC resin	TEC resin
	Primeprint Temp A1	67 40 281	Resin for temporary anterior and posterior tooth restorations A1	IIa	II
	Primeprint Temp A2	67 40 299	Resin for temporary anterior and posterior tooth restorations A2	IIa	II
	Primeprint Temp A3	67 40 307	Resin for temporary anterior and posterior tooth restorations A3	IIa	II

Notes

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