

THE DENTAL  
SOLUTIONS  
COMPANY™



# Primeprint Solution Checklist

As of October 2023





**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**

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# 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 enable a smooth integration of Primeprint, Primeprint PPU, and the required accessories.

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

\* 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
<b>Workstation</b>	<b>Set-up area for accessories</b>			
	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)	<input type="checkbox"/>	<input type="checkbox"/>	
	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)	<input type="checkbox"/>	<input type="checkbox"/>	
	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)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Nitrogen</b>	Space for a nitrogen bottle	<input type="checkbox"/>	<input type="checkbox"/>	
	Nitrogen with a purity of 2.8 which equals 99.8 Vol.-% available	<input type="checkbox"/>	<input type="checkbox"/>	If not: Contact a specialist seller and request a quote
	Additional accessories for the nitrogen supply: <ul style="list-style-type: none"> <li>• Pressure regulator and manometer to regulate pressure to 4 to 8 bar</li> <li>• 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 1/4" 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.</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	If not: Contact a specialist seller and request a quote for a hose or an adapter that suits the current set up
<b>Cleaning agent</b>	Isopropanol 99% available	<input type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>
Transport for delivery to the installation site has been clarified. Packaging dimensions/weight:		
<ul style="list-style-type: none"> <li>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)</li> <li>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)</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>
Elevator available	<input type="checkbox"/>	<input type="checkbox"/>
The necessary transport staff has been organized (2 persons)	<input type="checkbox"/>	<input type="checkbox"/>

Set-up area	Yes	No
The minimum requirements for the Primeprint set-up area are fulfilled (see "prior to the sale")	<input type="checkbox"/>	<input type="checkbox"/>
The minimum requirements for the Primeprint PPU set-up area are fulfilled (see "prior to the sale")	<input type="checkbox"/>	<input type="checkbox"/>
The minimum space requirements for Primeprint Box, Material Unit and Washing Containers are fulfilled	<input type="checkbox"/>	<input type="checkbox"/>

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

Comments/measures:



## D. IT infrastructure

Hardware	Yes	No
PC with minimum hardware requirements available (see "prior to sale" and manufacturer information)	<input type="checkbox"/>	<input type="checkbox"/>
System monitor available (see "prior to sale")	<input type="checkbox"/>	<input type="checkbox"/>

Network	Yes	No
IT administrator is available on the day of installation (recommendation: Contact the IT administrator during the installation)	<input type="checkbox"/>	<input type="checkbox"/>
Internet access for activating software licenses available	<input type="checkbox"/>	<input type="checkbox"/>
Designated CAM PC is already integrated in the network	<input type="checkbox"/>	<input type="checkbox"/>
Network with DHCP server available	<input type="checkbox"/>	<input type="checkbox"/>
Automatic or static IP assignment in the network	<input type="checkbox"/> Auto- matic	<input type="checkbox"/> 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)	<input type="checkbox"/>	<input type="checkbox"/>
Central storage location (shared network drive) available in network for restoration data	<input type="checkbox"/>	<input type="checkbox"/>
Check availability of a PC or server that runs 24/7 (recommendation: Use an inLab PC or a server)	<input type="checkbox"/>	<input type="checkbox"/>

Software	Yes	No
Ensure that all software requirements are met at the customer site. Observe the current manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>
Software type and version:		

Comments/measures:

## E. Equipment recommended on day of installation

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



# 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	<input type="checkbox"/>	<input type="checkbox"/>
inLab CAM Service was installed correctly and is running	<input type="checkbox"/>	<input type="checkbox"/>
inLab CAM Software was installed correctly and licenses are activated	<input type="checkbox"/>	<input type="checkbox"/>
Primeprint was installed as per the instructions for use	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
The manometer shows a nitrogen pressure of 4 to 8 bar	<input type="checkbox"/>	<input type="checkbox"/>
Primeprint can be started without any errors	<input type="checkbox"/>	<input type="checkbox"/>
Primeprint PPU can be started without any errors	<input type="checkbox"/>	<input type="checkbox"/>
The file exchange between the CAD Software and the CAM Software works flawlessly in the given folder/network structure	<input type="checkbox"/>	<input type="checkbox"/>
An application was printed and post processed without errors (test cross, measurable)	<input type="checkbox"/>	<input type="checkbox"/>

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

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

DS Core Care service & support*	Yes	No
Registration of equipment in Siroforce (please be aware that the service package is available only for registered equipment)	<input type="checkbox"/>	<input type="checkbox"/>
Explanation of DS Core benefits and DS Core Care service package	<input type="checkbox"/>	<input type="checkbox"/>
Handover of DS Core Care flyer	<input type="checkbox"/>	<input type="checkbox"/>
Inform customer of <b>30 day DS Core Care order period</b> after installation	<input type="checkbox"/>	<input type="checkbox"/>

Conclusion	Yes	No
Contact information for ordering consumables and servicing was provided	<input type="checkbox"/>	<input type="checkbox"/>
The customer's attention was drawn to the "Cleaning and Maintenance" instructions (see manufacturer information)	<input type="checkbox"/>	<input type="checkbox"/>

\* Service is subject to country availability. DS Core Care is not yet available for devices sold to laboratories. 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



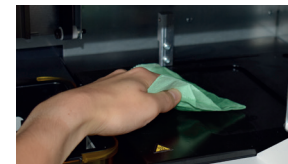
### Before post processing

- 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

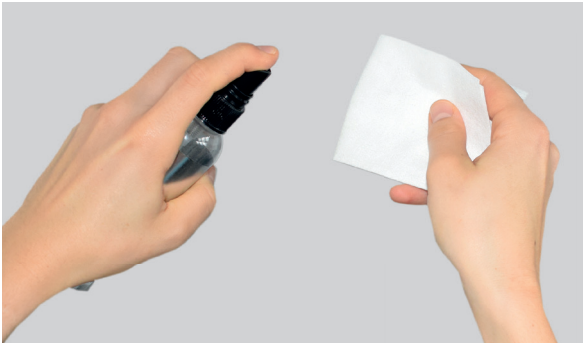
- Exchange washing containers

### 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.



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

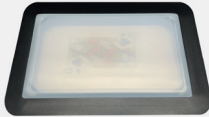



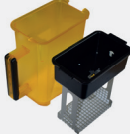




## Accessories and Consumables

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
	Primeprint Material Unit Type S'	68 07 965
	Transport Container Insert, 5 pieces	67 54 241
	Foil with Clamp Frame, Repl.	67 44 911













1 Required for printing of Primeprint Splint ST and Primeprint Splint SF.

# Primeprint Solution

## Accessories and Consumables

Product		REF.
	Foil Type S with Clamp Frame, Repl. <sup>1</sup>	68 07 973
	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 Gingiva Starter Kit	68 27 609	Resin for dental gingiva masks bundled with two Washing Containers 2.0	TEC resin	TEC resin
 Primeprint Guide	67 40 232	Resin for surgical guides	Ila	I
 Primeprint Splint	67 40 240	Resin for hard splints (high hardness compared to other splint resins for Primeprint)	Ila	I
 Primeprint Splint SF <sup>1</sup>	68 08 856	Resin for splints, repositioners, mouth- & nightguards (high flexibility compared to other splint resins for Primeprint)	Ila	I
 Primeprint Splint ST <sup>1</sup>	68 08 807	Resin for splints, repositioners, mouth- & nightguards (thinnest printable compared to other splint resins for Primeprint)	Ila	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	Ila	II
 Primeprint Temp A2	67 40 299	Resin for temporary anterior and posterior tooth restorations A2	Ila	II
 Primeprint Temp A3	67 40 307	Resin for temporary anterior and posterior tooth restorations A3	Ila	II

<sup>1</sup> Only compatible with Material Unit Type S.



## **Dentsply Sirona**

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