ENGLISH

FREEPRINT® ortho

Light-curing resin based on (meth)acrylate, biocompatible, for the generative fabrication of orthodontic bases, splints, surgical guides, X-ray templates

for DLP printers with LED with 405 nm / UV-LED 385 nm

Important notes
This is a medical device, only to be used by trained specialist personnel.

Processing
- ► The properties of the final product depend, among other things, on post-processing. Correct post-exposure is important for biocompatibility. Therefore it must be ensured that the light unit is in an orderly condition and that the moulds are completely cured (observe process description on page 2).
- ► Homogenize/roll the material prior to processing, i.e. with a roller mixer.
- ► Minimum material thickness for the design is 1.5 mm
- ► Maximum curing depth* at direct post-exposure:
  clear: 6 mm
  *In case of large objects and exposure on both sides, the material thickness can be up to 12 mm (Example **FREEPRINT® ortho** – with a curing depth of 6 mm).
- ► Polish surface mechanically.
- ► Processing temperature 23 °C ± 2 °C.

Safety
- ► Please follow the instructions on the safety data sheet!
- ► Be sure to use personal protective equipment (protective gloves and protective glasses) during processing.
- ► Avoid direct contact with the liquid material and the components prior to post-curing. Irritating to eyes and skin (sensitisation is possible).
- ► After contact with eyes rinse thoroughly with water immediately and consult a doctor.
- ► After contact with skin wash immediately with water and soap.
- ► Biocompatibility is only guaranteed with complete polymerisation.

Storage
- ► **FREEPRINT® ortho** is to be stored dry (at 15 °C - 28 °C) and protected from light. Minimal influence of light can already induce polymerisation.

General
- ► Always keep container tightly sealed, immediately close the container carefully after each use.

Contraindication
Contains (meth)acrylics and phosphine oxide.
Some ingredients of **FREEPRINT® ortho** may cause allergic reactions in predisposed persons. In such cases refrain from using the product. **FREEPRINT® ortho** only insert intraorally in completely polymerised state.

Adverse effects
Product may cause allergic reactions.

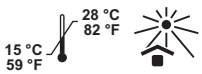
FREEPRINT® ortho was developed for use in dental laboratory and must be used in accordance with the instructions for processing and safety. DETAX will not be responsible for damages caused by faulty or improper use of system and materials.

Caution: Federal U.S. law restricts this device to sale by or on the order of a dentist (or trained specialist personnel).

Do not reuse

Indication:
Orthodontic bases, surgical guides and X-ray templates for implant dentistry, fixation and transfer keys

Processing:
at 23 °C ± 2 °C

Storage


Ordering information:

FREEPRINT® ortho
1.000 g bottle, clear **04089**

FREEPRINT® ortho 385
1.000 g bottle, clear **04095**

FREEPRINT® model
1.000 g bottle
sand **03065**
ivory **03779**
grey **03781**

FREEPRINT® model 385
1.000 g bottle
sand **03778**
ivory **03780**
grey **03782**

FREEPRINT® cast
500 g bottle, red **02890**

FREEPRINT® cast 385
500 g bottle, red **03710**

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Made in Germany CE 0483

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FREEPRINT® ortho

Manufacturing

Data preparation and fabrication of the support structure according to the instructions of the CAD software manufacturer

Construction process

Generation of a Print Job complying with machine and material parameters

Post-processing

After raising the platform, a drip time of approx. 10 minutes is recommended. If possible, post-processing should commence immediately following the construction process.

Pre-cleaning

Remove construction components from the platform and clean in a separate vessel with isopropyl alcohol (purity ≥ 98%) for 3 min. in an ultrasonic bath.

Cleaning

Then thoroughly clean the openings, cavities and gap areas, if necessary also with compressed air, and, if applicable, remove the construction components carefully from the support structure.

Main cleaning process

The main cleaning process is performed in a separate vessel with fresh isopropyl alcohol (purity ≥ 98%) for 3 min. in an ultrasonic bath. Prior to post-exposure, check the openings and additional bore holes for residues. Then blow off with compressed air.

Post-exposure

Post-exposure is performed with a xenon photoflash unit (e.g. Otoflash G171) with 2 x 2000 flashes under inert gas conditions (nitrogen), rotate components in between.

Surface processing

Polish surface mechanically