



## User Guidelines for

DEGRES  X100



## General Information

### Storage

DEGRES INX® X100 should be stored in fridge. Protect it from light.

### Intended Use

Research use only. This product is not intended for use in diagnostic or therapeutic procedures.

### Safety Information

Use suitable personal protective equipment. For more information, please refer to the material safety data sheet.

## User Guidelines

### Preparation

DEGRES INX® X100 should be warmed up in a water bath at 50 °C for ~30 min. After heating, the resin becomes a translucent, yellow-coloured liquid.

### Processing

DEGRES INX® X100 resin is suitable for DLP-based printers operating at a wavelength of 405 nm and an intensity between 10 – 30 mW/cm<sup>2</sup>.

**Table 1.** Recommended exposure times for a layer of 50 µm for three different intensities

Intensity (mW/cm <sup>2</sup> )	Exposure time for one layer (s)
10	15.0 – 17.0
20	6.0 – 8.0
30	3.0 – 4.0

### Post-Processing

After the completion of 3D printing process, the printed structure can be washed in acetone (~5 min) to remove the non-crosslinked resin. Next, the structure should be post-cured with light (wavelength: 300 – 405 nm, intensity: 10 mW/cm<sup>2</sup>) while being immersed in acetone for 30 min for a complete crosslinking reaction. (close the recipient with a transparent glass lid to avoid evaporation of acetone during irradiation)

After post-curing, the printed structure should be washed further by immersing in (refreshed) acetone for 2h followed by immersion in deionized water for 1h.

### Sterilization

The samples can undergo sterilization through either a 2-hour UV-C irradiation process or autoclaving.