Indications for Use: KeyPrint® KeySplint Soft™ Clear for Carbon® Printers is indicated for the fabrication of orthodontic and dental appliances such as bite planes, mouthguards, nightguards, snoring appliances, splints and repositional appliances.

Product Description: KeyPrint® KeySplint Soft™ Clear for Carbon® Printers is a light-curing resin for the 3D printing of flexible biocompatible dental devices for use with Carbon® M-series printers.

Contraindications: Contains methacrylate monomers and oligomers which, although rare, may cause an allergic reaction in individuals sensitive to acrylic containing products.

Warnings & Precautions:
1. Deviation from the described manufacturing process may compromise biocompatibility, user safety, and lead to unwanted material properties of the finished printed product.
2. Review the product Safety Data Sheet (SDS) prior to use.
3. As per the SDS, wear proper personal protective equipment when handling KeyPrint® KeySplint Soft™ Clear resin for Carbon® printers and uncured printed parts.
4. Avoid contact with skin and eyes when handling this resin and uncured printed parts. In case of accidental contact, follow the “First-aid measures” listed in Section 4 of the SDS and seek medical attention if necessary.
5. When pouring the resin, be careful not to splash.
6. Store in a dry place at ambient temperatures (15 - 30°C /59 - 86°F), away from light.

CAUTION: Federal law restricts this device to sale by, or on the order of a dental professional.

Directions for Use:
1. Ensure that resin is tempered to ambient temperature (20-25°C/68-77°F) prior to printing.
   Note: While handling KeyPrint® KeySplint Soft™ Clear resin for Carbon® printers, we recommend wearing personal protective equipment (i.e. safety goggles, lab coat, closed-toe shoes, gloves, etc).
2. In order to achieve consistency of the resin and to prevent bubbles, agitate the bottle prior to use.
3. KeyPrint® KeySplint™ Soft Clear resin for Carbon® printers, should only be used with your Carbon® printer, by selecting the “Keystone KeySplint™ Soft Clear” resin on the drop-down menu.
4. Follow Carbon’s directions for printing the siloed STL design file.
5. Resin coated printed parts should be cleaned of any residual liquid resin with Isopropyl Alcohol (IPA) (at least 97%) within approximately 8 hours from the completion of the print.
   Note: Do not allow the parts to sit in IPA for longer than 5 minutes, as the properties may begin to deteriorate. Keystone discourages the use of denatured alcohol or ethanol for cleaning as it may diminish or degrade the quality of the finished parts.

Directions for post-processing treatment of printed part(s):
1. Remove part from printer and build platform. If applicable, remove support structures from the part.
2. Place in fresh IPA bath and wash for 3 minutes at ~140 RPM in a sealed, labeled container placed in an orbital shaker. Use a dedicated IPA bath for washing.
   Note: Fill container with IPA until ¾ of the tallest parts are covered. Dispose of soiled IPA in accordance with local regulations and refill container with fresh IPA.
3. Place parts in a second bath of fresh IPA and continue washing for another 2 minutes at ~140 RPM.
   Note: Dispose of soiled IPA in accordance with local regulations.
4. Transfer parts onto a paper towel on a tray lined with aluminum foil.
5. Using a cleaning foam swab dipped in IPA, wipe the entire intaglio surface of each part.
6. Allow parts to air dry on the paper towel for 25-30 minutes. Compressed air can be used to shorten the wait time.
7. Use compressed air to inspect parts for glossy areas, which indicate residual liquid resin.
   If present, repeat steps 5 and step 6 and allow parts to fully dry.
8. Place objects in one of the adequate UV curing units below, using the instructions provided.
9. Parts are now safe to handle without gloves. Perform final polishing/finishing steps as needed.
10. Prior to delivery to the patient, clean the medical oral appliance with soap and water to ensure the device is free of any debris from the polishing process.
11. Part is ready for use. The finished medical device resulting from these directions for use is safe, biocompatible and effective.

Patient Cleaning Instructions: This medical device is a single-patient, customized, multi-use oral appliance that should be cleaned between usage. The patient should clean the appliance with soap and warm water, or any over-the-counter mild cleaning agents indicated for oral devices.

Disposal Considerations: KeyPrint® KeySplint Soft™ Clear for Carbon® printers is not considered an environmental hazard in its final, fully cured state. Dispose of unused and non-recyclable liquid resin materials in accordance with federal, state and local regulations.