

UNIVEST™ INVESTMENT



Developed for high reliability and compatibility with low heat partial denture alloys.

Uninvest investment is a gypsum-based dental investment for making refractory models for waxing and casting partial frames. It is recommended to use distilled or deionized water for best possible outcome.

Uses

Designed for partial denture castings.

Typical Material Properties*

Cast Alloys	Water/Powder Ratio	Set Time
Low temperature metals	30/100	8¼ - 9¼ minutes

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

Duplicating the Gypsum Master Model

1. Soak the master model in water for 30 minutes (or 2 minutes under vacuum) to remove any air from the gypsum model.
2. Blow off any excess water from the model and place the model into a duplicating flask.
3. Pour in Uniflex™, Perfex®, or Neoflex™ duplicating material from your hydrocolloid conditioning unit.
4. Once filled, place the duplicating flask into a chilled water bath, covering only the bottom of the flask and not the sides.
5. As the duplicating material starts to cool and set up, it will pull toward the cold water, which will cause it to pull tightly over the master model for an exact duplication.
6. Let set for 30 minutes, then remove the master model and allow the duplicating material to bench set to reach room temperature before pouring in Uninvest investment.

Making the Uninvest Refractory Model

	Mechanical Mix	Hand Mix
Powder	200g	200g
Distilled Water	60 ml	60 ml
Mix Time	60 seconds under vacuum	60 seconds

1. Place impression on low vibration and fill the impression with Uninvest investment.
2. Remove from vibrator and allow to bench set for 60 minutes.
3. Remove the model, trim and dry for 45 minutes at 204 °F (94 °C).
4. Follow the application instructions for any of the R&R Rosin Dips and dip the model.

The waxing is completed based on the specific case type and design utilized. Recommended practice is to use several sprues attached to a master sprue in the upside down or reverse method of spruing. When the waxing is completed, the wax should be cleaned with a surface tension lowering agent (aerosol, tincture of green soap, etc.) and the waxed-up cast should be thoroughly soaked in water.



RANSOM & RANDOLPH

3535 Briarfield Boulevard, PO Box 1570 | Maumee, OH 43537 USA
800.253.4502 | 419.865.9497 | 419.865.9997 (FAX) | www.ransom-randolph.com



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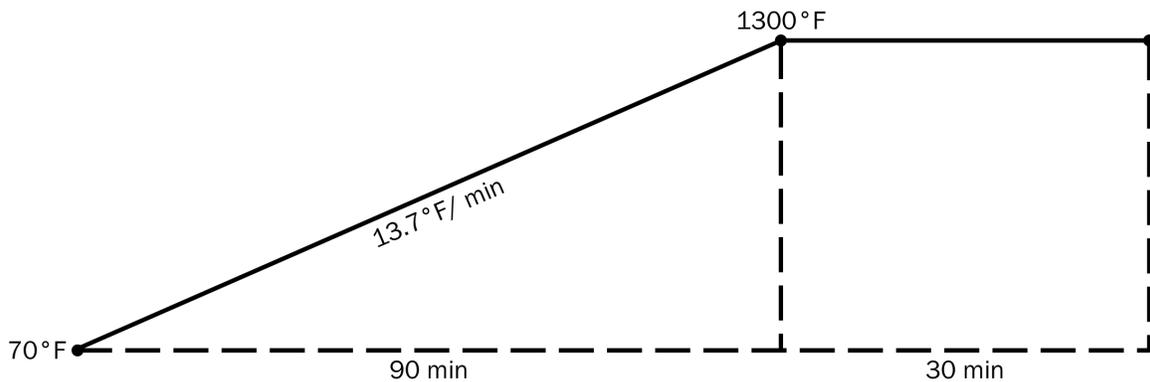
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Investing the Model (Outer Mold)

	Mechanical Mix	Hand Mix
Powder	600g	600g
Deionized or Distilled Water	180 ml	180 ml
Mix Time	60 seconds under vacuum	60 seconds

1. Mix investment and paint the wax, pushing the investment ahead of the brush to prevent trapping air and painting over the cast, covering both wax and cast 1/8" to 3/16" thick.
2. Place the cardboard, foil-lined ring over the wax and cast, set on the vibrator under light vibration, and pour the mixed investment into the ring until the wax-up is covered.
3. Remove immediately from vibrator.
4. Bench set invested ring at room temperature for 30 minutes or longer before starting the burnout process (see burnout graph below).
5. After burnout, cast immediately into hot ring.

From	Raise To	In	Hold
70°F (21°C)	1300°F (705°C)	90 min	30 min



Storage

Keep container closed when not in use. Store in a cool dry area.

Technical Tips

For additional information and recommendations, refer to the Dental Investment Defect Analysis Guide Technical Tip available for download at www.ransom-randolph.com.

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