

# Tooling Resin Systems and Elastomers

## Laminating Resins, Gel Coats and Casting Compounds

Product	Description
<b>CONAP® UC-23</b>	<b>CONAP® UC-23</b> is a two-component modified urethane system that produces a tough, highly impact resistant elastoplastic. This liquid urethane casting system has excellent handling characteristics and will cure at room or elevated temperatures. Its processing and performance advantages include:
<b>CONATHANE® UC-40</b>	<b>CONATHANE® UC-40</b> is a liquid, two-component, unfilled urethane resin system that produces tough, high-impact resistant, dimensionally stable castings. UC-40 is used to produce prototype parts requiring a "thermoplastic" feel and appearance. The use of UC-40 as a prototyping material will cut costs by reducing the high expense of tooling normally required for a thermoplastic. It is economical to produce prototype parts and limited production runs out of UC-40. The system offers several advantages including those shown below:
<b>CONATHANE® UC-41</b>	<b>CONATHANE® UC-41</b> is a two-component, unfilled urethane resin system that produces tough, impact resistant, dimensionally stable castings. UC-41 is used to produce prototype parts requiring a "thermoplastic" feel and appearance. The use of UC-41 as a prototyping material reduces the expense of tooling normally required for a thermoplastic. Prototype parts and limited production runs can be done economically by using UC-41. This system offers several advantages:
<b>CONATHANE® UC-43</b>	<b>CONATHANE® UC-43</b> is a liquid, two-component, unfilled polyurethane resin system that produces tough, high-impact resistant, dimensionally stable castings. UC-43 exhibits the unique ability to retain its hardness at elevated temperatures. This system may be used to produce prototype parts requiring a "thermoplastic" feel and appearance. The use of UC-43 as a prototyping material will cut costs by reducing the high expense of tooling normally required for a thermoplastic. This system offers many performance advantages including those shown below:
<b>CONATHANE® UC-48</b>	<b>CONATHANE® UC-48</b> is a liquid, two-component, unfilled polyurethane resin that produces tough, high-impact resistant, dimensionally stable castings. UC-48 is used to produce prototype parts requiring a "thermoplastic" feel and appearance.
<b>CONATHANE® UC-49</b>	<b>CONATHANE® UC-49</b> is a liquid, two-component, unfilled urethane resin system that produces tough, high-impact resistant, dimensionally stable castings. UC-49 is used to produce prototype parts requiring a "thermoplastic" feel and appearance. The use of UC-49 as a prototyping material will cut costs by reducing the high expense of tooling normally required for a thermoplastic. It is economical to produce prototype parts and limited production runs out of UC-49.

**CONATHANE® UC-51** produces tough polyurethane castings with good flexural modulus, good impact resistance, and the feel of reinforced polypropylene or an engineering thermoplastic. The system is designed for quick mold turnover in either silicone or polyurethane tooling. The one-to-one volumetric mix ratio is designed for easy and efficient dispensing from either two-barreled cartridges or automated meter mix equipment. The low initial viscosity allows easy injection into complex molds.

**CONATHANE® UC-54** is a two-component, low viscosity, 85 Shore D urethane casting system exhibiting excellent hardness retention at elevated temperatures. Low exotherm permits casting of large parts.

#### Flexible Urethane Tooling and Mechanical Elastomers

Product	Description
<b>CONATHANE® TU-6050</b>	<b>CONATHANE® TU-6050</b> is a liquid two-component polyurethane casting system formulated to produce 50 Shore A elastomers. TU-6050 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-6060</b>	<b>CONATHANE® TU-6060</b> is a liquid two-component polyurethane casting system formulated to produce 60 Shore A elastomers. TU-6060 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-6070</b>	<b>CONATHANE® TU-6070</b> is a liquid two-component polyurethane casting system formulated to produce 70 Shore A elastomers. TU-6070 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-6080</b>	<b>CONATHANE® TU-6080</b> is a liquid two-component polyurethane casting system formulated to produce 80 Shore A elastomers. TU-6080 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-6090</b>	<b>CONATHANE® TU-6090</b> is a liquid two-component polyurethane casting system formulated to produce 90 Shore A elastomers. TU-6090 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-8030</b>	<b>CONATHANE® TU-8030</b> is a two-component polyurethane designed to produce a 30 Shore A material that is tough, and has high elongation and tear strength. This system has a low mixed viscosity and adequate pot life for large volume casting.
<b>CONATHANE® TU-8040</b>	<b>CONATHANE® TU-8040</b> is a two-component polyurethane designed to produce a 40 Shore A material that is tough, and has high elongation and tear strength. This system has a low mixed viscosity and adequate pot life for large volume casting.
<b>CONATHANE® TU-8050</b>	<b>CONATHANE® TU-8050</b> is a liquid two-component polyurethane casting system formulated to produce 50 Shore A elastomers. TU-8050 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-8060</b>	<b>CONATHANE® TU-8060</b> is a liquid two-component polyurethane casting system formulated to produce 60 Shore A elastomers. TU-8060 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-8070</b>	<b>CONATHANE® TU-8070</b> is a liquid two-component polyurethane casting system formulated to produce 70 Shore A elastomers. TU-8070 does not contain MbOCA or heavy metal catalysts.

<b>CONATHANE® TU-8080</b>	<b>CONATHANE® TU-8080</b> is a liquid two-component polyurethane casting system formulated to produce 80 Shore A elastomers. TU-8080 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-8082</b>	<b>CONATHANE® TU-8082</b> is a two-component polyurethane casting system formulated to produce an 80 Shore A elastomer. TU-8082 does not contain MbOCA or heavy metal catalysts.
<b>CONATHANE® TU-8090</b>	<b>CONATHANE® TU-8090</b> is a liquid two-component polyurethane casting system formulated to produce 90 Shore A elastomers. TU-8090 does not contain MbOCA or heavy metal catalysts.
<b>Series Selector Guide TU-950 Series</b>	<b>CONATHANE® TU-950 Series</b> products are two-component liquid casting systems that produce flexible elastomers of exceptional toughness.
<b>CONATHANE® TU-956</b>	<b>CONATHANE® TU-956</b> is a two-component liquid casting system that produces flexible elastomers of exceptional toughness.
<b>CONATHANE® TU-961</b>	<b>CONATHANE® TU-961</b> is a two-component liquid casting system that produces a 60 Shore D elastomer with high impact strength, good elastomer properties, and very low shrinkage.
<b>CONATHANE® TU-971</b>	<b>CONATHANE® TU-971</b> is a two-component liquid casting system that produces a 70 Shore D elastomer with extraordinary flexural strength, flexural modulus, and impact strength.
<b>CONATHANE® TU-981</b>	<b>CONATHANE® TU-981</b> is a two-component liquid casting system that produces a 65 Shore D elastomer of exceptional toughness and extraordinary processing flexibility.