

## Thixoflex Black®

**Thixoflex Black®** is a two-component polyurea material designed for use as a durable, watertight sealant. The high viscosity allows for easy application where vertical and overhead application is desirable. The system demonstrates excellent adhesion to itself (cohesion) and allows for easy removal when necessary. Similar to TG8498 and TG2010, **Thixoflex Black®** exhibits increased bonding strength and improved UV resistance, as well as a quicker gel time across a wide temperature range. **Thixoflex Black®** is intended to be used as a fast-curing perimeter sealant, gap sealant or faying surface sealant. Common uses including sealing of antennas, lights, panels, leading edges cock pit windows and passenger windows.



Thixoflex Black® applied as a quick-cure fillet seal

Feature	Benefit
Provides a high level of adhesion to most substrates	Moisture barrier, corrosion protection, improved reliability, reduced repair/scrap
Ease of installation	High viscosity and cohesive properties assure proper sealing, even on vertical and overhead applications
No hazardous materials when removed	Non-hazardous polyurethane materials leave no residue before, during, or after installation
Fluid Resistance	Excellent resistance to typical aircraft fluids encountered on the exterior surfaces including Jet A, lubricating oils and de-icing fluids. Also demonstrates good resistance to most hydraulic fluids



Thixflex Black® injected around cock pit windows



Thixflex Black® installed in panel to create water tight seal

Typical Physical Properties	
<b>Thixoflex Black® Part Numbers</b>	<b>TG3212-50 (50 cc cartridge)</b> <b>TG3212-200 (200 cc cartridge)</b>
<b>Color, Properly Mixed</b>	<b>Black</b>
<b>Reaction Ratio - by Volume</b>	<b>100 : 100</b>
<b>Specific Gravity, Mixed, at 77°F / 25°C (Calculated)</b>	<b>1.08 to 1.10</b>
<b>Viscosity, Resin, Cps. at 77°F / 25°C (ASTM D2556)</b>	<b>4,500 to 9,500</b>
<b>Viscosity, Hardener, Cps. at 77°F / 25°C (ASTM D2556)</b>	<b>14,000 to 55,000</b>
<b>Working Life at 77°F / 25°C</b>	<b>&lt; 4 minutes</b>
<b>Gel Time, 10 g Mass at 77°F / 25°C (ASTM D7997)</b>	<b>&lt; 15 minutes</b>
<b>Shelf Life - in original packaging and store above 55°F / 13°C</b>	<b>Six months</b>
<b>Storage Temperature</b>	<b>&gt; 55.4°F / 13°C</b>
<b>Service Temperature Guide (RTCA DO-160G, Section 5, 2 cycles)</b>	<b>-85°F to 185°F / -65°C to 85°C</b>
<b>Application Temperature</b>	<b>&gt; 55°F / 13°C</b>
<b>Hardness, Shore "A" @ 77°F / 25°C @ 24 hours (ASTM D2240)</b>	<b>&gt; 70</b>
<b>Dielectric Strength (ASTM D149 Method A)</b>	<b>&gt; 400 V/mil</b>
<b>Tensile Strength (ASTM D412)</b>	<b>&gt; 920 PSI</b>
<b>Elongation (ASTM D412)</b>	<b>&gt;300%</b>
<b>SDS</b>	<b>SDS information can be requested at <a href="mailto:info@avdec.com">info@avdec.com</a></b>

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