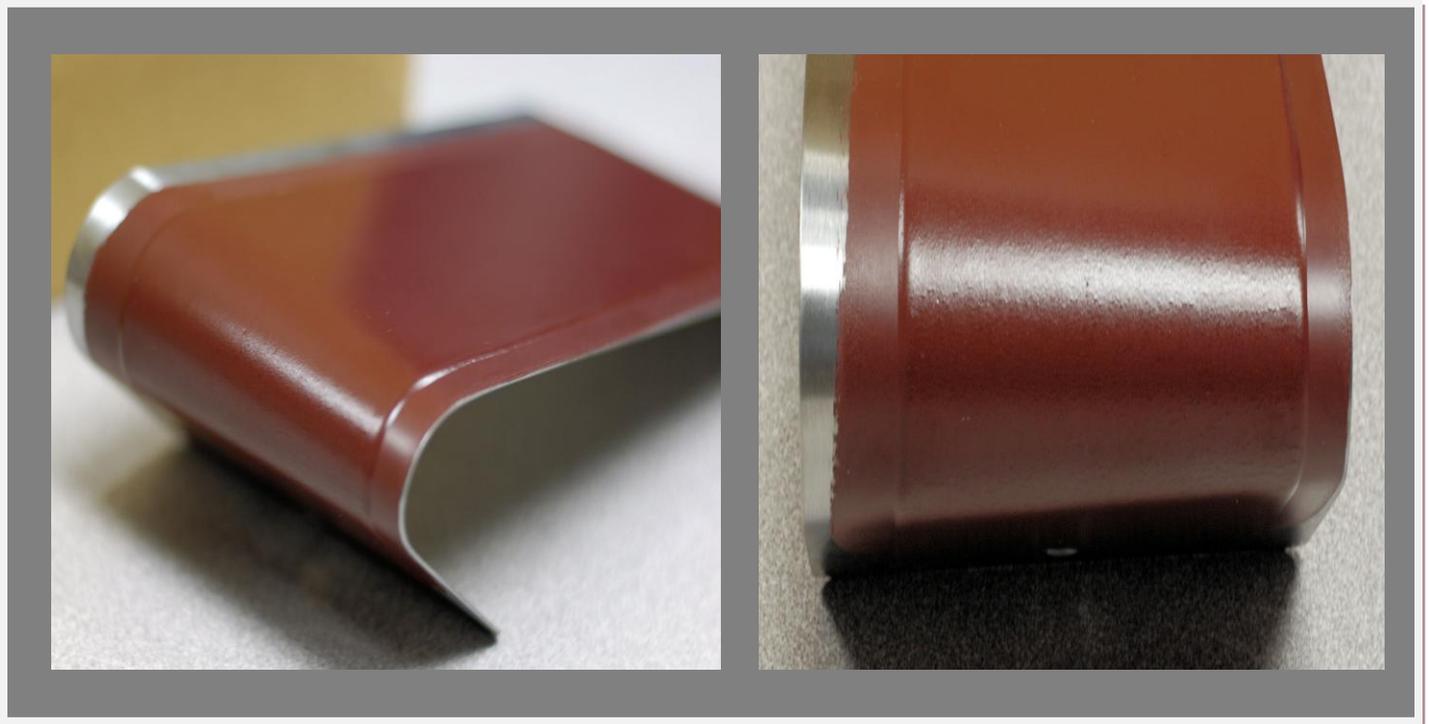


## FLEXIBILITY TESTING

Induron's new Ceramic Epoxies provide the ultimate protection available in the water and wastewater industry today. These 100% epoxies provide the best corrosion protection available because of their Unrivaled Film Build, Absolute Minimal Undercutting and Ultra-Low Permeability. They also provide a characteristic that is certainly unique for Ceramic anything ... Flexibility.

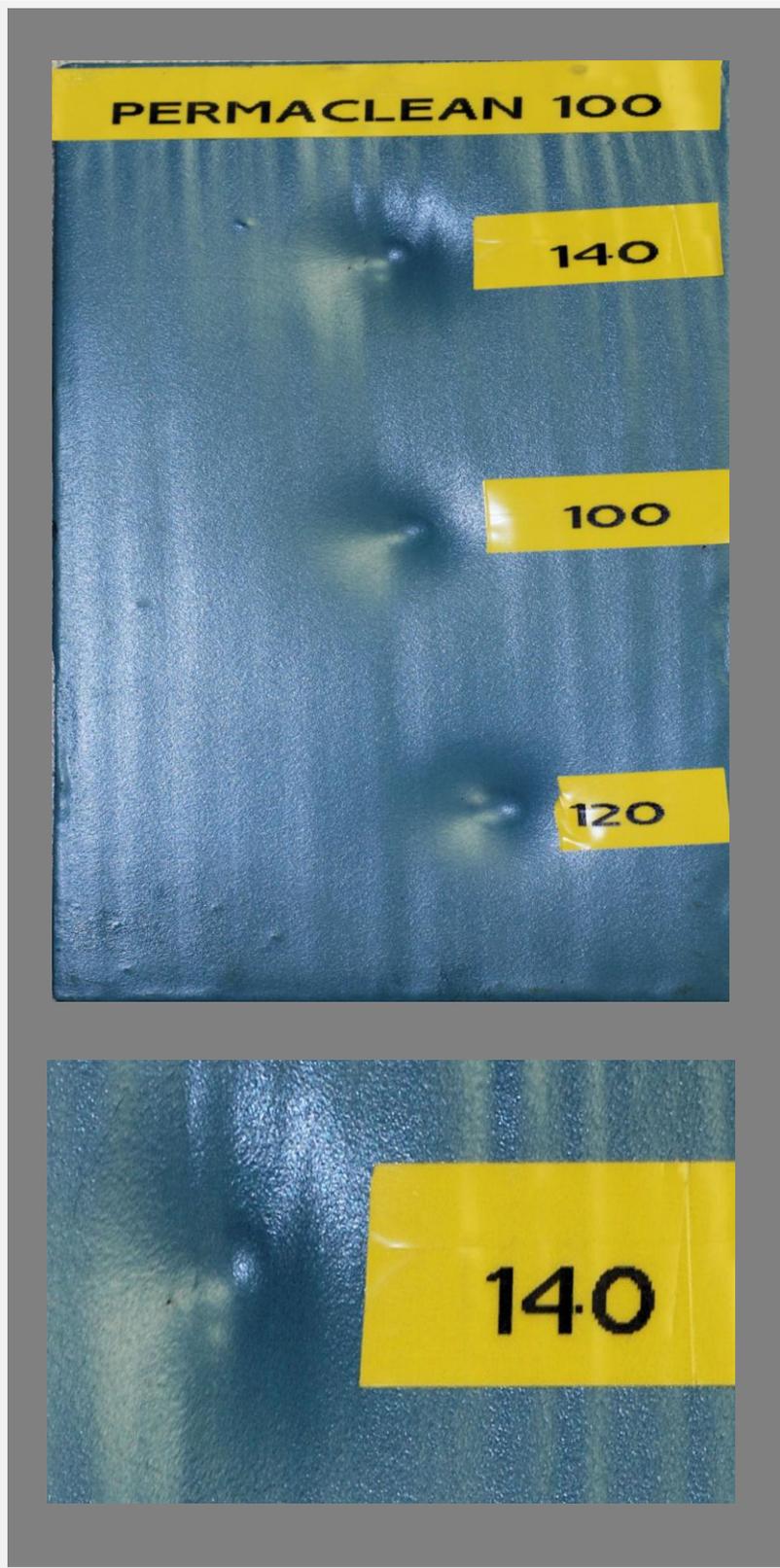
## MANDREL BEND



### Description:

Above is a picture of a steel panel painted with 20+ mils of Induron Perma-Safe 100 Ceramic Epoxy. This panel has been tested for flexibility via the Mandrel Bend ASTM D 522-88 Method A. The first picture shows the side angle of a ½ " Diameter Bend, or in other terms a 120° bend. The second shot shows a close up of this same steel panel. Notice that there is no cracking, delamination or failure of any kind on the surface. If a structure painted with any of the Induron Ceramic Epoxies withstood a 120° bend, then the adherence of the paint would be of minor concern. However, the Induron Ceramic Epoxy would stick!

## IMPACT RESISTANCE



### DESCRIPTION:

Adjacent is a picture of a steel panel painted with 30+ mils of Induron PermaClean 100 Ceramic Epoxy that has been tested for Hardness (another way to measure flexibility) via the Impact Resistance test ASTM D 2794-84. Three individual tests were performed on this panel with increasing loads, 100 in./lbs., 120 in./lbs. and 140 in./lbs. of Direct Impact. Induron publishes 80 in./lbs. impact resistance for PermaClean 100.

As you can see from the close up of the 140 in./lb. result, there is only the beginning of hairline cracking around the perimeter of the indented crater. More than 100 in./lbs. of direct impact on any surface, either concrete or steel will damage the structure itself. You will be glad to know that all of the Induron Ceramic Epoxies are flexible enough to handle the impact and still provide corrosion protection!