Industrial Coating - Competitive Analysis

Property	Test Method	Nano Activated Coatings Nano-Clear® NCI	DuPont IMRON® 2.1 HG-C	DuPont IMRON® 3.5 HG-D
Mfg. Recommended Use		**Newly Painted or Highly Oxidized Paints**	Newly Painted Only	Newly Painted Only
Polymer Chemistry		**Nanostructured Polyurethane Hybrid**	Polyurethane Copolymer	Polyurethane
Mixing Ratio	Ratio	**1K - no mixing** (labor savings)	1K – no mixing	2K - 2:1 Ratio
Recommended Dry Film Thickness (mils)	ASTM D5796	**1 mil** (2X - 5X less material)	3 mils	5 mils
Pencil Hardness	ASTM D3363	**4H** (3X – 5X harder)	H	F
Pendulum Hardness (Persoz)	ASTM D4366	**220**	N/A	24
Abrasion Resistance (CS-17, 1 kg, 1000 cycles)	ASTM D4060	**8.4 mg loss** (superior abrasion)	N/A	N/A
Impact Strength (kg-cm)	ASTM D2794	> **140**	> 160	> 100
Water Immersion Test	ISO 2812-2	**Pass**	Pass	Pass
QUV Resistance (> 1500 hours)	ASTM D4587	**100%**	94%	90%
Xenon WOM (> 2000 hours)	ASTM G155	**99%**	N/A	N/A
MEK Resistance	ASTM D4752	**>1500**	>200	>100
Salt Fog (1500 hours)	ASTM B-117	**No rust, no blisters.**	No rust, no blisters.	No rust, no blisters.
DMA – Crosslink Density (dynamic mechanical analysis)	XLD ($X10_3$ mol/m_3)	**2.17**	N/A	N/A