Nano-Clear VV-300 HSC Competitive Analysis

Property	Test Method	Nano-Clear® VV-300 HSC Hardcoat TDS: http://www.nanocoatings.com/VV300.pdf	Diamon-Fusion® Clear TDS: http://www.nanocoatings.com/diamon.pdf
Mfg. Recommended Use		Glass, Granite, Tile, Polycarbonate, TPO & ABS Plastics	Glass, Granite, Tile
Polymer Chemistry		**3D Nanostructured Polyurethane/Polyurea/Silicon**	Not available
Application Process		**One-Step** Wipe-On or Spray Application Process	**Multiple Step** Application Process including pre-treatment, treatment and residue polish removal
Recommended Dry Film Thickness (DFT)	ASTM D5796	**12.5 µm** or 0.50 mil DFT (Higher DFT = Improved Chip & Scratch Resistance)	<40 nm (nanometers) DFT
Pencil Hardness	ASTM D3363	**9H** pencil hardness over glass & **4H** over PC	8H-9H pencil hardness over glass
Hydrophobic Oleophobic Ice Phobic	ASTM C813 - 90	Water Contact Angle: **>100** Oil Contact Angle: **>80** Ice Repellency: **Yes**	Water Contact Angle: >100 Oil Contact Angle: NA Ice Repellency: Yes
Adhesion Strenth Mpa	ASTM D4541	Chemical bond to Silica Materials & Plastics: **3 Mpa**	Chemical Bond to Silica Materials: Not Available
Impact Strength (kg-cm)	ASTM D2794	**> 140**	Not available
Water Immersion Test	ISO 2812-2	**Pass**	Not available
Performance Warranty		**10 Years**	10 Years
MEK Solvent Resistance	ASTM D4752	**>1500 rubs**	Not available