Solution Derived Nanocomposite (SDN™) technology – a unique alternative to the commonly used vacuum (PVD, CVD, etc.) and non-vacuum (anodizing, electroplating, etc.) coating systems. Advenira has developed a proprietary method for applying liquid coatings at large, industrial scale that enables volume manufacturing. Advenira’s solutions replace conventional coatings through the use of liquid Nanocomposite precursors, removing the necessity of expensive vacuum chamber or furnace deposition. Advenira’s room temperature approach enable higher processing speeds, yielding throughput rates suitable for industrial applications.

Features
• Coat any 3D shape or material (Metal, Alloys, Ceramics, Plastics, Glass, etc.)
• Liquid deposition at room temperature
• Chemical bonding produces enhanced adhesion
• Produces a smooth and dense hard coating
• Low cost deposition materials
• >90% utilization of liquid cartridges
• Many coating formulations available for industrial applications
• Diverse markets and applications

3D-Hybrid Coater System

Patented Coating Process
Main Specifications

Cycle Time
10 minutes per part in continuous operation

Substrate Handling
Fully automated Conveyor
Size: based on customer sample
Weight: max 23kg (50 pounds)

Coating Area
All sides and surfaces
Select surfaces

Installation Requirements (Deposition system as pictured)
Physical Dimensions: 10W X 3.33H X 2.2D meters (33W x 11H x 7D feet)
Power: 240/480 VAC, 3
Air supply: 5.5 bar (80 psi), clean, dry
Ambient Temperature: <35°C (<95°F)
Ambient Relative Humidity: <95%, non-condensing
Exhaust Ducts: 4 each 150mm (6 inches) (top mounted)