



**Technical specifications for plasma sprayed
ThermoHold® Endurance Range™ of motor cycle exhaust coatings**

Bond coat	Nickel based alloy
Thickness of bond	Min 30µm Max 50µm
Ceramic material	Proprietary mix of zirconia and alumina titania based ceramics
Ceramic thickness	150-250µm depending substrate geometry
Total coating thickness	No more than 300µm unless specified
Coating mass	0.75 – 0.97kg/m ²
Ave. coating density	4350 - 4900 kg/m ³
Bond coat density	~7000 kg/m ³
Ceramic density	3600 - 4600 kg/m ³
Surface texture	Smooth to the touch Approximately 6-10 Ra
Colour	Matt Black, metallic back or grey
Emissivity	~0.85 - 0.95 (depending upon colour choice)
Reflectivity	~5 - 15% (depending upon colour choice)
Thermal conductivity	3.6 - 15w/m ² K
Electrical properties	Dielectric to high temperatures – point discharge from bond
Surface hardness	11 - 14 on modified mhos scale
Max. coating temp.	Tested to 900°C (exhaust gas temp.) – colour fast
Porosity of ceramic	8 – 12 %
Young's modulus	6 - 46 GPa
Poisson's ratio	0.21 – 0.31