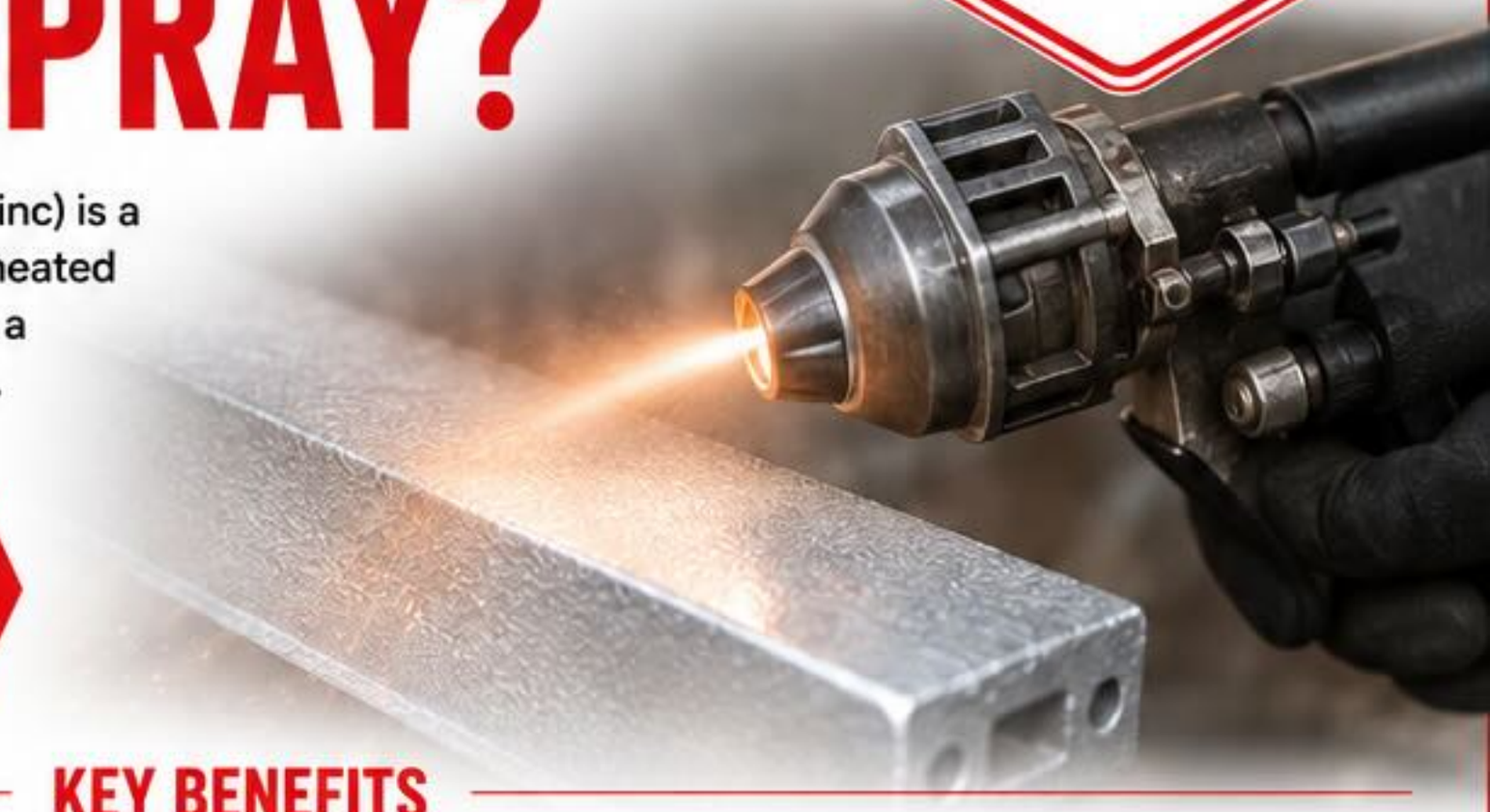
WHAT IS HOT ZINC SPRAY?

NSP Coatings Ltd

Hot Zinc Spray (also known as Thermal Spray Zinc) is a **metallic coating process** where molten zinc is heated and sprayed onto a prepared surface, forming a protective layer that guards against corrosion.



It provides long-lasting corrosion protection, even in harsh environments.

KEY BENEFITS

EXCELLENT CORROSION PROTECTION
Zinc acts as a sacrificial barrier, protecting steel from rust and corrosion.

LONG-LASTING DURABILITY
Provides extended service life, even in demanding conditions.

HIGH TEMPERATURE RESISTANCE
Coatings perform well in extreme temperatures and tough environments.

IDEAL FOR REPAIR & MAINTENANCE
Perfect for refurbishing galvanised steel and damaged coatings.

COST-EFFECTIVE SOLUTION
More affordable than many alternatives with minimal downtime.

THE HOT ZINC SPRAY PROCESS

1 SURFACE PREPARATION
The surface is cleaned to remove rust, scale, oil, and contaminants for optimal adhesion.

2 HEATING ZINC
Zinc wire or powder is heated to molten temperature in the spray gun.

3 SPRAY APPLICATION
Molten zinc is sprayed onto the surface at high velocity, forming a strong bond.

4 COATING FORMATION
Zinc particles flatten and cool on impact, building a dense, protective layer.

5 INSPECTION
The coating is inspected for thickness, adhesion and quallity.

6 READY TO PERFORM
The component is now protected and ready for service in harsh environments.

WHERE IS HOT ZINC SPRAY USED?

INFRASTRUCTURE
Bridges, highways, railings, and structural steel.

INDUSTRIAL PLANTS
Tanks, pipes, towers, and chemical facilities.

OFFSHORE & MARINE
Offshore structures, jetties, and marine equipment.

ENERGY & POWER
Wind turbines, power stations, and substations.

STEEL FABRICATION
Structural steel, frames, and heavy fabrication.

KEY PROPERTIES OF HOT ZINC SPRAY COATINGS

SACRIFICIAL PROTECTION
Zinc corrodes preferentially to steel, protecting the underlying metal.

STRONG ADHESION
Metallic bond to the substrate ensures excellent durability.

THICK & UNIFORM COATING
Builds to the required thickness for superior coverage and protection.

WEATHER & CHEMICAL RESISTANT
Withstands harsh weather, salt spray, chemicals and abrasion.

CAN BE OVERCOATED
Can be sealed or painted for enhanced appearance and performance.

WHY CHOOSE HOT ZINC SPRAY?

It's the trusted choice for long-term corrosion protection, even in the most challenging environments.

PROVEN PROTECTION | EXTENDED SERVICE LIFE | REDUCES MAINTENANCE | ENVIRONMENTALLY FRIENDLY | TRUSTED RESULTS