

## Unique CoBlast Skins

- Exceptional coating adhesion and integration
- One-step cleaning, roughening, and coating
- Ambient temperature, ambient pressure
- Minimal substrate alteration
- No wet chemicals

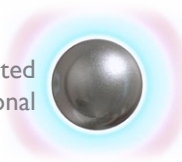
### Remove the oxide layer

The oxide layer presents a barrier to coating adhesion that must be removed for the application of high performance coatings.



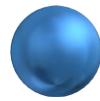
### Roughen the metal surface

Roughening the substrate and exposing unreacted metal provides an ideal surface for exceptional coating adhesion.



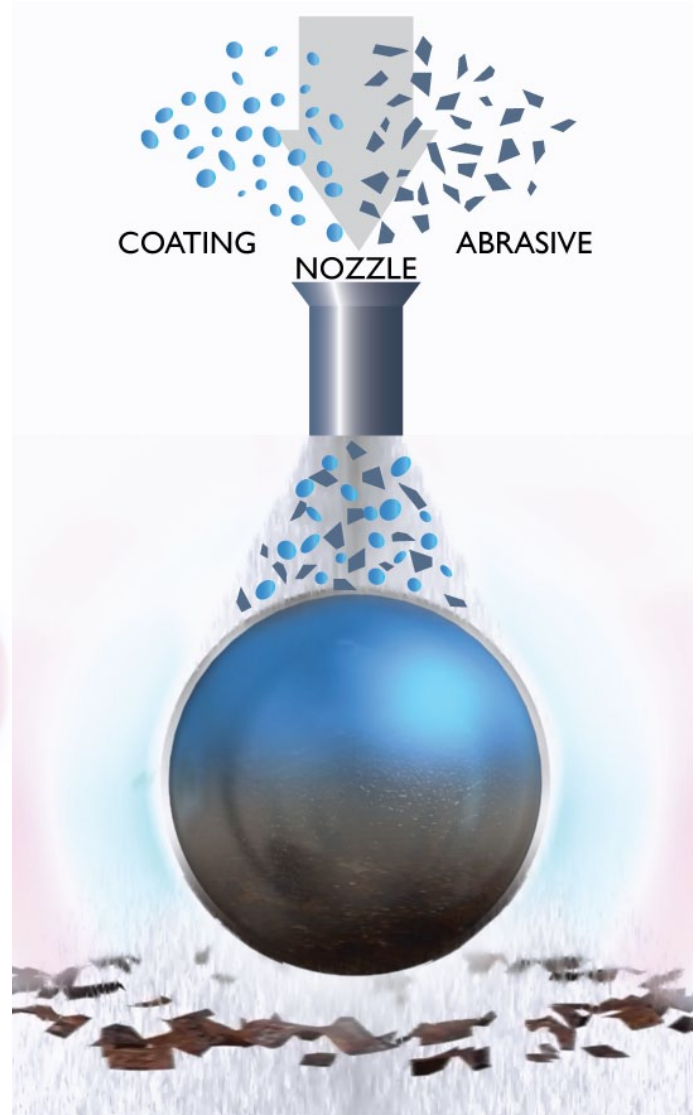
### Apply unique Skins

CoBlast Skins are highly integrated with the substrate. This gives them excellent durability and stability, and allows previously impossible properties to be achieved.



## In One Step

CoBlast is a one-step, ambient temperature, ambient pressure process that uses conventional grit/micro-blasting equipment to remove a metal's natural oxide layer and replace it with a desired functional Skin. Abrasive and coating powders are simultaneously blasted onto the metal surface from a single nozzle. The abrasive mechanically abrades the substrate, exposing active chemical bonds to which the coating particles bond before an oxide layer can reform. The inert nature of the abrasive ensures that it does not easily form chemical bonds, so that the process forms a coating with excellent coverage, with little or no abrasive remaining on the surface or embedded in the substrate. The level of coating/substrate integration achieved by this process is far beyond most coating methods and leads to some unique capabilities.



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