

# Saint-Gobain Coating Solutions

## Worldwide Expertise in Material Technologies and processes

### ROKIDE Spray System

ROKIDE spray system utilizes ceramic oxide rod consumables. The rods are melted in a patented spray unit that projects the fully molten particles onto a substrate. The ROKIDE particles cannot leave the spray unit until fully molten. These particles have high kinetic energy and high thermal mass, so they remain molten until reaching the substrate.

### Benefits of New Retrofit Head

- Reduced power
- Less gun rebuilds
- Reduced gas consumption
- Less labor
- Increases spraying capacity
- Reduced over-spray

### Lay down rate improvements

		Rod Feed rate (in/min)			Deposit Efficiency(%)			Lay down rates (lbs. hour)		
		Old	New	Improved	Old	New	Improved	Old	New	Improved
C	3/16	5.00	6.50	30%	49.80	58.30	17%	0.85	1.14	34%
C	1/4	3.60	5.25	46%	47.60	60.00	26%	1.13	1.54	36%
C	5/16	2.50	4.00	60%	32.90	57.60	75%	1.22	1.93	58%
MBC	1/4	7.50	10.25	37%	49.10	50.00	2%	2.01	2.70	34%
A	1/4	5.75	5.75	0%	48.50	74.10	53%	1.60	1.61	1%
A	1/4	5.75	8.75	52%	48.50	65.40	35%	1.60	2.50	56%
EZ	1/4	4.00	4.50	13%	61.30	61.00	0%	1.41	1.62	15%

### How ROKIDE ceramic spray coatings reduce costs:

- **Wear resistance** – harder and more resistant to wear and abrasion than metals, ideal for pump components like sleeves, plungers, impellers and casings.
- **Thermal barrier coating** – protection for underlying substrates, ideal for hot extrusion dies or components in contact with molten metal.
- **Electrical insulation** – superior insulating properties, used in wire-wound furnace cores and copper induction heating coil for both heat and electrical insulation.
- **Corrosion resistance** – Having both heat resistance and corrosion resistance, Rokide coatings are ideal for chemical and process industry applications in hostile environments.
- **Weight reduction** – parts made of steel can often be re-engineered to utilize an alternative material designed with Rokide coatings.
- **Material cost savings** – Rokide coatings provide value engineered properties for relatively inexpensive materials.
- **Reconditioning worn parts** – parts can often be reconditioned on location, saving the cost of removing, transporting and reinstalling operating equipment.

