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Aerosols

ZYP Coatings' Aerosol Refractory Paints are ideal for R&D to conveniently test the attributes of

- Yttria (Y_2O_3)
- Zirconia (ZrO_2)
- Alumina (Al_2O_3)
- Boron Nitride (BN)

Our fast-drying Aerosol Refractory Paints require NO CURE and are usable on all substrates and most all environments from cryogenic temperature up to are ideal for R&D to conveniently test the attributes of these materials. The coatings are nearly water-insoluble on drying and can be placed into their high-temperature use as soon as they are dry-to-the-touch.

Properties	Y-Aerosol	Z-Aerosol	A-Aerosol	*BN Aerosol Lubriccoat
	Y_2O_3	ZrO_2	Al_2O_3	BN
Purity (of refractory)	99.9%	>99%	>99%	>99%
		(incl. 4% CaO)		
Max. Use Temp. (C)				
Air	1900	1900	1800	1000
Vacuum	1900	1900	1800	1400
Inert	1900	1900	1800	1800
Vacuum + Carbon	1500	1500	1500	1400 (due to vacuum)
Use Atmosphere	All	All	All	All
Hardness Rating	Low-Med	Low-Med	Low-Med	Low-Med
Fired composition	-- OVER 97% is the refractory ingredient for all --			
Binder phase	-- Magnesium Silicate --			
Carrier/Propellant	-- Ethanol, Acetone with Propane, Butane propellant: all flammable --			
Color	White	Cream	White	White
Shelf Life	-- OVER 12 MONTHS for ALL --			
Coverage/13-oz.can	-- 30-50 ft ² for ALL --			
Cure	-- NONE REQUIRED: just dry-to-the-touch (1-2 minutes) & use --			
Outgas Temp. (C) for all	-- 350-600 when all volatiles are gone --			
Outgas (Volatile) Products for all	-- H ₂ O/CO _x			
Substrate Use for all	-- Metals, ceramics, graphite --			
H F R Ratings for all	2-4-0			

These Aerosol Refractory Paints are useful for many high-temperature studies as well as providing "barrier layers" between dissimilar materials to prevent reactions/interactions. And all of these are offered in "Aerosol-Brushable" bulk paint forms for scale up needs requiring a solvent-based paint. Check our Compatibility Guide for uses, compatibility and Basic Material Properties of these refractories.

- Also available in NON-FLAMMABLE "bulk" version as Boron Nitride Aerosol Lubriccoat NFN-12 for applications where flammable solvent-based BN aerosol coatings are not desired.