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Color Pastes Black, White, Red, Yellow & Blue

Provide Colored Tough, Abrasion-Resistant Sealant Layers for Ceramics to 800 C

Color Pastes are ready-to-use water-based, totally inorganic, pH-Acidic pastes that allow foundries and molten metal processing facilities to add color to their operations. Can be used for adding labels, marking, coding, logos or identification to your ceramics with use temperatures up to 800 C and to metals up to 500 C. Can be applied by trowel, spatula, putty knife, squeegee or, more conventionally, by brush or roller, and even by pressure-fed air-spraying. Coating is applied and dried at room temperature, and is then ready to be used in a high temperature environment. Note that thinner coatings generally give the best results. Black, White, Red, Yellow and Blue will mix to make a nearly infinite number of colors.

Key Attributes

- Adherent to most all ceramic materials, withstanding thermal cycles and remaining color stable.
- Forms a tough, abrasion-resistant layer at temperature of 200 C and above
- Minimal outgassing on heatup (H_2O and NO_x)
- High-temperature stable: does not glaze, melt, run, become tacky or chalk off.
- Easily applied, like house paint
- Water-based; utensils are readily cleaned up with water

Ideal Use

- Coating any porous or dense ceramic with a distinctive color
- Coating ceramics or metals with safety messages
- Providing logo or identification on parts used at high-temperatures
- Reducing surface dusting/spalling from ceramic parts

Use Notes

1. Resuspend the paint if necessary.
2. Clean surface of oil, dirt, scale etc.
3. Apply a thin layer by trowel, spatula, putty knife, squeegee, brush, roller, or pressure-fed air spraying (may require some dilution).
4. Allow to dry before use.

NOTE: Can be diluted with water to whatever consistency is desired.



On Aluminum Oxide plate after heating to 800 C for 1 hour

Specifications

Active Ingredients

Ceramic pigments & proprietary binder system

Max Use Temperature 800 C (1472 F)

Use Atmosphere All

Fired Composition Proprietary

Liquid Carrier Water

Specific Gravity 1.5-2.6

Color Black, White, Red, Yellow, Blue

Shelf Life (months) >12

Coverage (ft²/8 oz.) 10-15

Coating pH 2

H F R Ratings 1-0-0

Substrate Use Designed for ceramics usable to 800 C; OK for metals to 500 C

Note: Specifically formulated to yield tough, abrasion-resistant coatings after heating to 200 C or higher. Due to thermochromism, red and yellow will darken appreciably when heated. The coating colors will revert to brighter colors upon cooling.

Sizes and colors

Colors: Black, White, Red, Yellow, and Blue,

Standard Sizes: 8 oz.

B&W Kit: Black and White - 8 oz. of each

RYB Kit: Red, Yellow, Blue - 8 oz. of each

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors.
- For industrial use only.

CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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