



CRACKING



GLAZE EFFECTS



GLAZE STARVATION



CRATERS

WHAT IS CRACKING?

Cracking or breaking may occur as the ware is being heated up in the glaze firing, but is more common during the cooling down phase of the firing.

WHAT ARE PINHOLES AND CRATERS?

After firing, you may see small "pin sized" holes on the surface of the ware or you may see larger "crater like" impressions like the surface of the moon. While there are many things that can cause pinholes and craters, the causes are related to gases coming from either the clay body or where color and/or glazes that have not smoothed over after firing. The clay body, and even the glaze, contains clays mined from the earth. These clays contain some organic matter (i.e. plants, etc.), carbon and more. These materials form gases during the firing process and can result in pinholes and/or craters.

WHAT IS CRAWLING?

Small spots where the clear glaze and/or color seems to "crawl" away from the bisque and "bead up" is called glaze crawling.

WHAT IS CRAZING?

Crazing is a fine network of hairline cracks that appear on the glaze surface. There are two types of crazing, immediate and delayed.

WHAT IS GLAZE STARVATION?

The fired glaze surface will be inconsistent, textured and dull in appearance. The piece may look underfired or the underlying color may look muted or white.

WHAT ARE HARD OR YELLOW SPOTS?

Hard spots are areas on the bisque that will not take color properly. Yellow spots after glaze firing can be either due to either hard spots or improper spacing of load in kiln.

WHAT IS MILKY OR HAZY COLORS?

Milky or hazy colors are colors which appear muted due to tiny bubbles trapped in the clear glaze.

WHAT IS SHIVERING?

In the glaze firing, the bisque will basically expand during the firing and contract during the cooling phase. Shivering is typically defined as occurring when the bisque and glaze shrink at different rates. If the bisque shrinks more than the glaze, the glaze has nowhere to go but "shiver" or "flake" off the bisque.

TO DETERMINE POTENTIAL CAUSES
AND REMEDIES FOR THESE EFFECTS,
PLEASE SEE THE CCSA STUDIO
TECHNICAL GUIDE AVAILABLE FOR
DOWNLOADING ON
WWW.CCSAONLINE.COM



HARD SPOTS



CRAWLING



MILKY OR HAZY COLORS



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SHIVERING