

ARCOR

The Intelligent alternative

TEST REPORT

ARCOR S-16 HIGH TEMPERATURE EXPOSURE

Sample
Preparation:

A 3" x 3" x 1/8", Stainless Steel Type 304 plate was prepared for coating. One-half of the plate was sandblasted to a 2.0 mil profile. The other half of the plate was ground with coarse sandpaper on a grinding disk to a 1.5 mil profile. ARCOR S-16 white was applied to the plate at 12-16 mils thick. This was overcoated with ARCOR S-16 blue at 12-16 mils thick. The fully coated plate cured for one day at room temperature before start of test.

Test Conditions:

The coated plate was placed in a dry oven at 280-285°F for two continuous weeks. The sample was then removed from the oven and allowed to cool to room temperature (78°F). After 3 days at room temperature the sample was returned to the oven for one day, then removed to room temperature for one day. This cycling sequence was repeated twice.

Test Results:

Hardness was measured prior to start of test and after two weeks of continuous testing using a Durometer Hardness Tester. The initial hardness reading was 85 shore D and 90 Shore D after testing.

There were no other changes noted in the coating except for a color change. The ARCOR S-16 White became a yellowish tan and ARCOR S-16 blue became a dark green. There was no blistering or cracking, delamination or flaking and the coating remained tightly adhered to both the sandblasted and the ground surfaces of the plate.