

NATIONWIDE PROTECTIVE COATING MFRS., INC.

PROJECT REPORT Chemical Resistance of Coatings

Project Report #: 92-219-A-CP

Films of PERMAKOTE®, PERMAKOTE PLUS®, ULTRA KOTE™, ULTRA SEAL™ and ULTRA TEX™ were drawn at 7 mils wet on Lenata scrub charts. Samples of these were 1. Immersed in various chemicals, and 2. Treated with a large drop of the same chemicals. The results are shown below:

IMMERSION

CHEMICAL	1 HOUR	2 HOURS	24 HOURS
25% Sulfuric acid	OK	OK	OK
25% Nitric acid	OK	Purple/Blue*	Purple/Blue*
25% Hydrochloric acid	OK	OK	Slightly Purple/Blue*
25% Acetic acid	OK	Purple/Blue*	Purple/Blue*
50% Sodium Hydroxide (NaOH)	OK	OK	OK

SPOT

CHEMICAL	30 MINUTES	5 HOURS	7 HOURS
25% Sulfuric acid	OK	OK	OK
25% Nitric acid	Purple/Blue*	Purple/Blue*	Purple/Blue*
25% Hydrochloric acid	OK	OK	OK
25% Acetic acid	Purple/Blue*	Purple/Blue*	Purple/Blue*
50% Sodium Hydroxide (NaOH)	OK	OK	OK

**This Purple/Blue color, disappeared after the sample was rinsed in water and was allowed to dry.
Acetic acid was the only chemical which left a "haze" or loss of gloss after drying.*