

American Research and Testing Inc.

14934 SOUTH FIGUEROA STREET
GARDENA CA 90248
(310) 538-9709 FAX (310) 538-9965
www.americanresearch.com

CLIENT: Progressive Solutions Corp
2848 Corporation Parkway
Algonquin, IL 60102

NUMBER
212-12-085
December 26, 2012

SUBJECT: EPA Method 24 VOC of Diluted Kleen Kote

REFERENCE:

Tests and charges were authorized by Don McMahon on 12/5/2012.

SAMPLE DESCRIPTION:

The Client submitted one sample container identified as Kleen Kote on 11/14/2012.

REQUEST:

Determine VOC content of the sample as used (1+11 or 1+15 mixture with water, minimum 24 hr ambient cure).

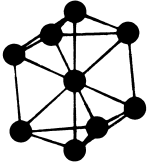
METHOD:

VOC of the product mixed with water was determined from total volatile content, water content, and density following the methodology specified in EPA Method 24, adapted to multi-part coatings. Prior to testing, water dilutions of the product were prepared as 1+11 or 1+15 parts by volume of product + water. Non-volatile content was determined gravimetrically per ASTM D2369 on each mixture, modified to allow the material to chemically react for a minimum of 24 hours prior to baking. Water was calculated from weight data of the mixture and previously determined water content of the product. Density was calculated from the weight volume data of each mixture. VOC was calculated from these data.

Matthew Doyle, B.S.
Chemist

SIGNED FOR THE COMPANY
by

Barbara Belmont, M.S.
President



American Research and Testing Inc.

14934 SOUTH FIGUEROA STREET
GARDENA CA 90248
(310) 538-9709 FAX (310) 538-9965
www.americanresearch.com

RESULTS:

Sample	% Non-volatile matter	% Water	Density (g/ml)	Wt Percent VOC	g VOC per liter of material
1 part by volume Kleen Kote + 11 parts by volume water	5.25	93.23*	0.984**	1.52	15
1 part by volume Kleen Kote + 15 parts by volume water Estimated by calculation	3.91	94.72*	0.994**	1.37	14
SCAQMD Rule 1113 for Form Release Category	--	--	--	--	120, max, for low solids coatings only

*calculated from mixture data and previously determined water concentration in the product

**calculated from mixture data

CONCLUSIONS:

Water-diluted Kleen Kote, having a solids concentration of less than 0.5 pounds solids per gallon of mixture, is eligible for the low solids category, which regulates the VOC of material rather than the VOC of coating. This means that the diluted Kleen Kote product (1+11 and 1+15) complies with the SCAQMD Rule 1113 VOC limit of 120 g/L material for low solids coatings.