



## VOC CONTENT

The products are analyzed according to SCAQMD Rule 1168 or 1113 (as mentioned in LEED Criteria), which set the USEPA 24 -Determination of Volatile matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating - as the method for the evaluation of VOC content expressed as g/l.

Mapei analytical central lab in Milan is equipped with all instruments for the evaluation of all parameters for VOC content as required by SCAQMD Rule 1168 and Rule 1113:


1. DENSITY: determination by pycnometer according to ASTM D1475 – 60
2. VOLATILE CONTENT: determination according to ASTM D2369 by heating the sample at  $110 \pm 5^\circ\text{C}$  for 60 min
3. WATER CONTENT: determination according to ASTM D 4017 by the Karl Fischer Titration Method

Mapei analytical central lab is equipped with a Karl Fischer titrator, as required by USEPA 24 for water content determination. Since some samples can be sticky, rubber, solid and/or hard to dissolve in methanol, an oven has been used to bring the water content to the Karl Fisher vessel. A picture of the titrator describes the technique.

4. EXEMPT COMPOUNDS: not used in our formulations

PRODUCT	VOC CONTENT (g/l)
ULTRABOND 333	47,0

Mikaela Decio  
*Corporate Environmental Sustainability Manager*

 **MAPEI** S.p.A.  
Via Cafiero, 22 - 20158 MILANO  
C. F. e P. I.: 01649960158  
