

**Technical Bulletin #18****Dec 17, 2002****Changes to Technical Bulletins 12 & 12A**

While preparing all of the Technical Bulletins for the next distributor disks, we found that the technical bulletins #12 and #12A could be made more clear/easier to understand.

This new bulletin #18 replaces both #12 and #12A. Remove Technical Bulletins #12 and #12A from your files.

**EX-2C Topcoat VOC Content**

Please note that the VOC content of EX-2C Topcoat is calculated using the regular Component "B" (not the LO VOC "B"). Regarding VOC regulations, please note that the VOC content of a specific EX-2C Topcoat is at 387g/l or 3.22 lbs/US gal using the regular Component "B" (not the low VOC "B"). If thinning down is necessary, EX-2C thinner may be used to the VOC level permitted in your area. For example if the VOC regulation is at 3.5 lbs/US gal, you will be permitted to add 0.28 lbs of thinner to a gallon of mixed paint. Any subsequent thinning would have to be done with an exempted solvent: acetone. To spray at a higher viscosity to comply with VOC regulations, airless spray equipment is the best choice for heavy industrial application and HVLP for light industrial application.

**VOC Calculator in Inventory Program**

Due to increased environmental restrictions many people are concerned about the Volatile Organic Compound (VOC) concentrations of the paint. We have added a feature to the inventory program that calculates the VOC concentration in grams per liter for each color.

This program only calculates the VOC concentration for Component "A". In order to calculate the amount of VOC per mixed liter for EX-2C Component "B", EX-2C Low VOC "B" and California "B" the following formula is to be used:

$$\text{VOC per mixed liter (g/L)} = \frac{(\text{VOC Component "A"} + \text{VOC Component "B"})}{2}$$

For EX-2C Special "B" the following formula is to be used:

$$\text{VOC per mixed liter (g/L)} = \frac{(2 * \text{VOC Component "A"} + \text{VOC Component "B"})}{3}$$

Each Component "B" has a different VOC concentration:

- EX-2C Component "B" = 590.43 g/L
- EX-2C Special "B" = 191.17 g/L
- EX-2C Low VOC "B" and California "B" = 139.83 g/L

For example if the Component "A" has a VOC concentration of 390.33 g/L the VOC per mixed liter is as follows:

$$\begin{aligned}\text{VOC per mixed liter (g/L)} &= \frac{(390.33 \text{ g/L} + 590.43 \text{ g/L})}{2} \\ &= 490.38 \text{ g/L using EX-2C Component "B"} \\ \text{VOC per mixed liter (g/L)} &= \frac{(390.33 \text{ g/L} + 139.83 \text{ g/L})}{2} \\ &= 265.08 \text{ g/L using EX-2C Low VOC "B" or California "B"} \\ \text{VOC per mixed liter (g/L)} &= \frac{(2 * 390.33 \text{ g/L} + 191.17 \text{ g/L})}{3} \\ &= 323.94 \text{ g/L using EX-2C Special "B"}\end{aligned}$$

To convert from g/L to lbs/ US gal, simply divide the value obtained in g/L by 120

For example to convert the value 490.38 g/L to lbs/US gal:

$$\frac{490.38 \text{ g/l}}{120} = 4.09$$

If you have any questions please call the Endura lab staff at (780)451-4242.

Endura Lab Staff