

The differences between Genesis (the low-emitting paint) and the Pro Kote 23-Series are as follows. There is no difference per gallon for the primer. The difference per gallon for the top coat is \$20.90 - \$14.15 = \$6.75 (Genesis is more expensive by \$6.75 per gallon). The total first cost difference is \$8002.74 - \$6388.14 = \$1614.60 or, by dividing by 20,000 ft² of building floor space, the difference in first cost is \$80.73/1000 ft².

Using the same procedure, the other comparisons yield the following differences in first cost:

- Genesis compared with Ultra Deluxe 36-Series: \$24.52/1000 ft²
- Genesis compared with Plastic Kote 29-Series: \$13.75/1000 ft².

Taking the highest and lowest per gallon differences and the total cost differential that considers the difference in coverage, the following summarizes this sustainable design feature:

- Sustainable design feature: low-emitting paint
- Incremental first cost (\$/unit): -\$3.19 to +\$6.75
- Incremental cost (\$/1000 ft²): -\$109.50 to +\$101.66.

E.2 Documentation of Recycled Latex Paint

Based on cost estimates from the Timberline model, the 20,000-ft² office building has 70,000 ft² of interior painted surface. Recycled content primer was not available, so the cost comparisons below do not include primer costs. The data on typical contractor-grade paint gathered for the low-emitting latex paint options were used as the baseline for this comparison.

Recycled paint is post-consumer latex paint that has been sorted by type, color, and finish and reprocessed for resale. The U.S. Environmental Protection Agency (EPA) through the "Comprehensive Procurement Guideline"² encourages the purchase of latex paint made from post-consumer-recovered materials whenever the paint meets the project's specifications and performance requirements and is available and cost effective. The benefits of recycled paint for sustainable design typically include the following:

- Lower first cost (where the paint is available, it is typically offered at a lower price than virgin paint of a comparable quality)
- Reduced paint disposal needs (using the recycled paint creates a market for the excess paint often found after household and commercial construction projects)
- Decreased waste costs (recycling, rather than disposing of, the excess paint avoids waste disposal costs).

Two suppliers of recycled paint provided quotes for their products. These vendors sell recycled paint and accept excess latex paint for reprocessing and consolidation. Both vendors can ship their products to the Baltimore area. Shipping costs are not included in the cost summary below because the vendors noted that their distribution outlets are increasing and these charges may not be applicable over the long term. Also, both companies offered special rates for large projects and government buildings and under other special circumstances; those reduced rates were not considered for this evaluation.

² Available at URL: <http://www.epa.gov/epg/products/paint.htm>

