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ASTM Committee Member C09 (current)
ASTM Committee Member D33 (past)

Applicability to New Concrete:

- Tilt Ups – these are typically poured into a form on-site and allowed to cure before removing them from the form. A releasing agent is sprayed into the form before the cement is poured which allows the walls to be released from the form and tilted up into position. This releasing agent is petroleum based and can take up to 45 days to “air burn” off.
 - **Solution: SGT’s products will etch this petroleum based product off and profile the concrete in one step making the wall ready for coating applications up to 45 days earlier.**
- Steel and/or laser trowelled concrete – although it is faster to machine trowel the concrete surface, it creates a surface that is so “tight” that protective and decorative coatings cannot bond to them.
 - **Solution: SGT’s products uniformly open up these surfaces without generating silica dust, noise pollution (e.g., from sand blasting) or the problems associated with liquid acid. The gelled consistency allows the applicator precision placement even into the zero moments, e.g., corners, around columns, etc. SGT’s products neutralize with water and are flushable to sewer.**
- Decorative etching (new or existing concrete) – the alternative method of placing graphics into concrete is sandblasting. Small details are often lost, the process is extremely messy and noisy and the cut lines become traps for debris.
 - **Solution: SGT’s Graphics on Demand system is called Flattoos™ - Tattooing Images into Flat Concrete Surfaces. This system utilizes our gelled acid products and vinyl adhesive templates. The graphic is “etched” into the surface, generating no silica dust and no cut lines to clean or grout. There are no size or detail restrictions and graphics can be in any language.**

Cost Comparison: 6’ x 6’ template

Sandblast Template	~\$1500.00	Including cost of sandblast equipment (rental) and sand
Flattoo™	~\$600.00	Can be multicolored –Including SGT’s gelled acid
Savings	At least \$800.00	And less hazardous than sandblasting

Applicability to Existing Concrete:

- Renovation, restoration and cleaning – Often the concrete pad is sound, meaning it has slight substrate cracking that can be repaired. However, these pads are often dirty or contaminated with mold, mildew, rust, human and animal waste or even toxic materials, e.g., PCBs. Therefore, these structurally sound pads are often broken up and carried off site and the pads are re-poured.
 - **Solution: SGT’s products are gelled acid. They will remove all of the above and hold whatever is removed within the gelled solution for easy disposal. They will etch, clean and profile all in one step. The cost is approximately 12 - 15 cents per sq. ft.¹ reducing the overall cost of the project substantially. These products are easy to use, neutralize with water, contain zero VOCs, and create no silica dust or noise pollution (like from sandblasting), making them environmentally safer than any alternative available.**

¹ Cost for sandblasting can be 10 times higher, not including disposal.