

SILICONES

5 Strengths of Coating Type	5 Weaknesses of Cure Type
<ul style="list-style-type: none">● Stable over wide temperature range (in general, -40fC to 200fC)[104fF to 392fF]● Flexible, provides dampening and impact protection● Good moisture, humidity, and UV/sunlight resistance● High dielectric strength● Low surface energy to enable effective penetration under components	Room Temperature Vulcanization (RTV) <ul style="list-style-type: none">● Requires humidity (minimum 20% RH) to cure and only intermittent solvent resistance● Low abrasion resistance● Short pot life● TCE is ~300-350 ppm/fC● If proper house keeping is not followed, there is a potential for cross contamination
	UV Cure <ul style="list-style-type: none">● One component coatings require accurate application material to avoid shadowed areas● Potential for cure inhibition● Low abrasion resistance● UV Intensity and Wavelength affects cure● Some secondary cure mechanisms react with moisture, this can cause spray valves to become clogged
	Catalyzed (Addition) <ul style="list-style-type: none">● Low abrasion resistance● Potential for cure inhibition● Adhesion may be difficult● Only intermittent solvent resistance● If proper house keeping is not followed, there is a potential for cross contamination