



SILCOTEC

High Consistency Silicone Compounds

Self-Bonding

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Self-Bonding Silicone Compounds

SCT's self-bonding silicone compounds use an innovative approach to bond high consistency silicone rubber to various substrates without prime coating the substrate. Each self-bonding compound is individually formulated to bond to substrates like metal, glass, plastics, and fabrics and to accommodate to process constraints.

General Description

- Self-bonding silicone compound
- Color: standard colors, Pantone®, RAL, custom
- FDA compliant for medical and food contact
- Platinum curing system
- Shelf life: 1 month
- Durometer range: 20 - 70

Bond - To Substrates

Substrate	Examples
Metals	Stainless steel, anodized aluminum, titanium, chrome plated steel, gold
Plastics	Radel, udel, ultem
Rubber	Neoprene rubber, silicone rubber
Others	Polycarbonates, PEEK, glass, Zytel

Advantages

- Superior bond strength and durability than standard methods of bonding (prime coating)
 - * Bond strength is maintained after 800 autoclave wet/dry steam cycles
- Significant cost reductions and increased process efficiency
- For shelf life of up to 6 months, 2-component SCB systems are available
- Conductive self-bonding compounds available per customer request

Process Requirements

It is strongly recommended to use Nickel-Teflon coated molding tools to prevent mold-sticking issues.

Preform and Packaging

- Bulk, sheets, other
- Regular boxes, 50 Lbs
- Other preforms/packaging options available upon request