

Platinum Silicone

50A Platinum Silicone

Key Properties

- High Strength
- Medium Durometer
- Minimal Shrinkage
- Easy 10:1 Mix

Applications

- Room temperature hand batch processing
- Hobby and arts projects
- Rapid prototyping rollers
- Mold making

Processing Properties

			Silicone	Activator
Aspect	visual		White	Orange
Mix Ratio		pbw	100	10
		pbv	100	13
Density	ASTM D-792	g/cm ³	1.35	1.05
Viscosity at 25°C (77°F)	ASTM D-2393	cP	52,000	3,300

				Mixture
Mix Viscosity at 25°C (77°F)	ASTM D-2393	cP		30,000
Working Life		min		55-85
Demold Time at 25°C (77°F)		hour		16-24

Cured / Mechanical Properties

Cure: 7 days @ 77°F (25°C)			Cure
Aspect	visual		Orange
Density	ASTM D-792	g/cm ³	1.12
Cubic Inches per Pound		in ³ /lb	31.00
Shore A Hardness	ASTM D-2240		45-55
Tensile Strength	ASTM D-638	psi	715
Elongation at Break	ASTM D-638	%	150
Linear Shrinkage	ASTM D-2566	in./in.	nil
Tear Strength	ASTM D-624	pli	125

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Processing

The processing and material temperature should be between 68-77°F (20-25°C). Because pigments can settle during storage, the activator should be thoroughly stored before mixing. Air entrapped during mixing should be removed before poured to prevent voids in the cured product. Deair the mixed material under a vacuum of 25mm (29in) of Hg. The mixture will froth and expand 4x its volume, crest, and recede to its original volume as the bubbles break. Degassing is usually complete about 2 minutes after frothing subsides.

Packaging

Quart Kit	2.2	lbs.	1.0	kg
1 Gal. Kit	8.8	lbs.	4.0	kg
5 Gal. Kit	44.0	lbs.	20.0	kg
Drum Kit	440	lbs.	199.6	kg

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15-30°C). If properly stored the products have the shelf-life indicated on the product label. Partly used containers should always be sealed appropriately and used as soon as possible.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.
