

# SELPA-1A SOLAR SELECTIVE COATING

## CHARACTERISTICS:

SELPA-1A Solar Selective Coating is designed to selectively absorb wavelengths with the greatest heat content when used on the metal surfaces of collector panels having glazed covers. It collects heat energy more efficiently than ordinary black paints which emit a significant amount of the energy they absorb. This solar coating allows manufacturers of solar collector panels to achieve selectivity with the economy and ease of application of a paint.

- Especially formulated for your solar thermal and solar air collectors in helping you to boost sales of your products
- No out-gassing when correctly cured
- Shelf life (one year from date of mfg.)
- Resists UV and moisture degradation.
- Very high absorption and very low emissivity values
- Perfect for high yield from winter sun
- Applicable to all metal surfaces
- Single component and already premixed! ready to use
- Packing: 1 or 20 kg
- Country of Origin: Turkey

Best results are achieved with conventional air spray application. Degrease metallic substrates using Xylene, Toluene, Acetone or other suitable solvents. Stir well before and agitate during application. To ensure maximum performance, coating film thickness must be carefully controlled. For maximum selectivity, spray apply only one coat and a very thin coating, only enough to just hide the metal surface and to make it uniformly black in appearance.

Emissivity can range from 0.17 to 0.49 depending on dry film thickness, substrate and surface preparation. Absorptivity will range from 0.86 to 0.94. Wet film thickness of 0.020 to 0.025mm will yield optimum results.

SELPA-1A will naturally cure, to a point where no out-gassing will occur, within 3 days at room temperature of 15°C or above. Curing may be easily accelerated by baking the coated absorber panel at temperatures ranging from 120°C to 220°C for a period of 60 to 120 minutes.

## PHYSICAL AND CHEMICAL PROPERTIES:

Percent (%) Solids by volume	20
Binder:	100% silicone polymer
Solvent:	Xylene
Theoretical coverage per kg	8 sq. m. / liter
Operating temperature range	Ambient to 260°C
Surface temperature at time of application	10-49°C max.
Maximum temperature resistance	538°C
Color	Black
Odor	Solvent

## Precautionary Information

**WARNING:** Flammable Liquid and Vapor

Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not breathe vapors or spray mist. Avoid contact with eyes, skin and clothing. Use with adequate ventilation during mixing and application. If instructions and warnings cannot be strictly followed, do not use this product.

Producer: Siberg Tech. Izmir-Turkey

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