

# High Emissive Silicone Coating, HESC/CSNM-29

Vikram Sarabhai Space Centre has developed a good number of specialty coatings to meet the specific requirements in Launch Vehicles and Satellites. These coatings may also find various industrial applications.

HESC/CSNM-29 is one such special coating system developed as a high temperature resistant enamel coating. This coating finds application as a high emissive topcoat on ablative surfaces. It is also used as a high emissive and thermal insulative coating on the PCB sensor cards for GPS Radiosonde studies. This room temperature curable silicone based coating system contains special inorganic fillers, which imparts high emissivity to the system. Other applications could include anticorrosion and weather/ rain proof coating on metallic substrates. The coating is weather and high temperature resistant and lasts for long.

## Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below:

### Typical Properties / characteristics:

PRoPeRTY	
Part A	White, viscous
Part B	Transparent liquid
Ford cup viscosity (Ford cup No. B 4)	20-40 sec. after diluting with 200 ml toluene
Adhesion tape test	No peeling from substrate