**INTEREST EXPLORATION NOTE**

| TECHNOLOGY | FROM ISRO |
|---|---|

## COATING COMPOUND EPY1061

ISRO has developed different types of adhesive compounds catering to specific applications in Launch Vehicles and Satellites. These materials may also find various industrial applications such as bonding, sealing, coating, potting, laminating, molding etc.

EPY1061 is an amidoamine modified epoxy based system specially developed to protect the metal surfaces from corrosion in aqueous strontium perchlorate medium. This coating and sealing system consists of two main components Part A(resin) and Part B(hardener) and a third component Part C which is a solvent. Parts A, B and C are mixed in a specified ratio and sprayed into the metal surface using spray gun to get corrosion resistant coating. The coating adheres well to the metal substrate and reaches fully cured condition at room temperature in 72 hours.

**Typical properties/ characteristics**

| | | |
|---|---|---|
| 1 | Colour and consistency | Red coloured viscous liquid |
| 2 | Viscosity at 25° C (cps) | 20000-40000 |
| 3 | Pot life/ Gel time | $\geq$ 25 minutes. |
| 4 | Flow Time, Part A,B&C mixed | 35 – 50 seconds. |
| 5 | Cure | Ambient |
| 6 | Lap shear strength on Al-Al at RT | $\geq$ 90 ksc |

ISRO offers to license the know-how to capable small/ medium scale specialty polymer manufactures, looking for new product line. Interested parties are requested to respond immediately with details of their present activities and product lines, capabilities, infrastructure, their own product assessment and their plans for implementing the technology.

For further details, please contact:
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