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## **EXECUTIVE SUMMARY**

Nano Clear NCI is a polyurethane topcoating that is a one-component in a hybrid structure with high cross-link bonding that should provide it with corrosion, UV and abrasion resistance (this in addition to its suitability to a wide range of coating systems).

In this study, samples of Nano Clear NCI from Strategic Visionary Solutions were tested in a salt spray chamber for up to 5000 hours and then tested in field test for 1 full year at ICL plants; Dead Sea Works and Rotem, in different locations with severe corrosion conditions.

The results show high corrosion resistance of the Nano-Clear NCI coating during 5000 hours in a salt chamber. In addition, an abrasion test, adhesion and thickness measurements were performed before and after the salt spray exposure. The results of the field tests are summarized below.

Summary	Corrosion Performance	V Cut	Change in thickness	Test Location
Excellent	✓	✓	✓	Rotem plant area #4
Excellent	✓	✓	✓	DSW area #1
Excellent	✓	✓	✓	DSW area #2

- Summary Legend: Bad, Medium or Excellent
- Adhesion results are between 7-10 MPa with adhesive failure.
- Abrasion results are: Average Wear Index 40 [mg/cycle] and Wear Cycles 1337 [cycle/mil].

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**IMI TAMI Institute for Research & Development Ltd.**

P.O.B 10140, Haifa Bay, 2611101, Israel

E-mail: [Ran.Akiva@icl-group.com](mailto:Ran.Akiva@icl-group.com)

Tel. +972-4-8469347 Fax. +972-4-8469364

[www.tami-imi.com](http://www.tami-imi.com)