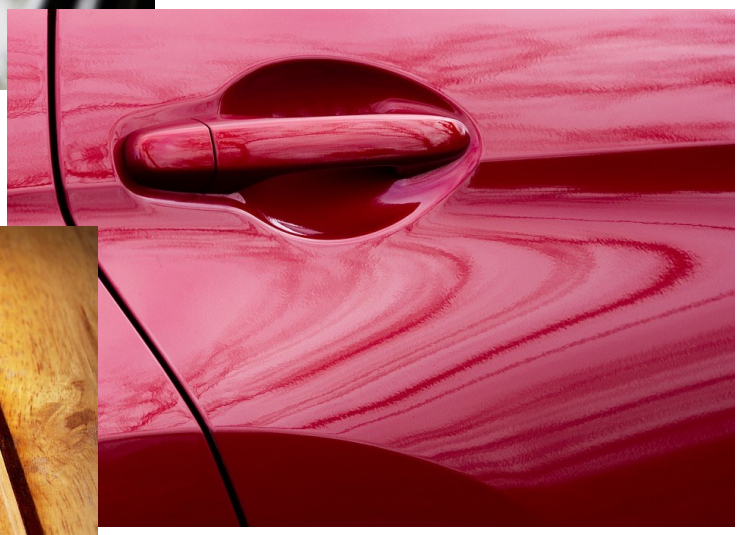
# Enhancing Adhesion with Myribond® LX

*Adhesion Promoting Resin for Overprint Varnish, UV Coating, and Thermoset*



*"Golden Performance and Greener Solution without Price Premium"*

# Enhancing Adhesion with Myribond® LX

**Myribond® LX** adhesion-promoting resin is made from Myriant's renewable **bio-succinic acid** and is a cost effective resin for use in coating systems. It provides enhanced adhesion to both low-energy and high-energy substrates including polyester, polyolefins, glass, metal, and aluminum. Myribond® LX offers a combination of resilience, flexibility and yellowing resistance coupled with adhesion and bears no "green" price premium.

## Applications

### UV-Cure Coating

UV-curable coatings involve an unsaturated resin(s) formulated in combination with acrylate/methacrylate monomers and a photoinitiator. Traditional UV-curable coatings have difficulty adhering low-energy substrates such as polyester, polypropylene, and polyethylene as well as high-energy substrates like glass and metal or metallized foil. **Myribond® LX is an excellent choice for adhesion in UV systems, particularly in applications with low– and high-energy substrates.**

Myribond® LX can be used as the main resin or in combination with traditional acrylate/methacrylate systems. While this resin cures easily with UV irradiation, Myribond® LX also responds well to thermal or oxidative curing mechanisms, especially when combined with metal driers and/or peroxide catalysts.

**UV Formulation with Myribond®LX**

One representative formulation is shown below as an example; formulations should be verified by the user.

| | Oligomer | CPK (phr) |
|---|---|---|
| Myribond® LX | 100% | 4 |

*CPK (1-hydroxy-cyclohexylphenyl-ketone), photoinitiator

When formulated as seen above, Myribond® LX adheres to aluminum, metal, and concrete.

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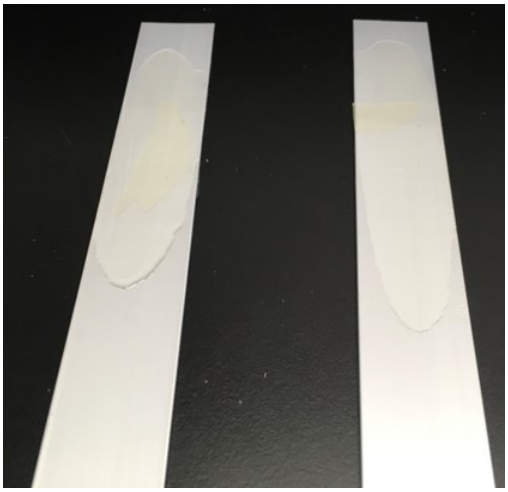
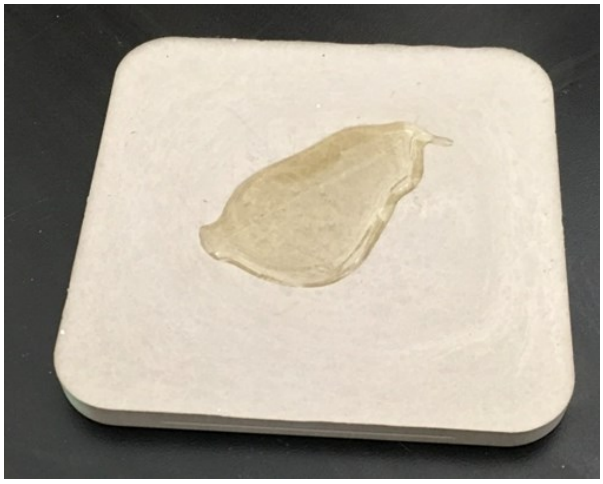
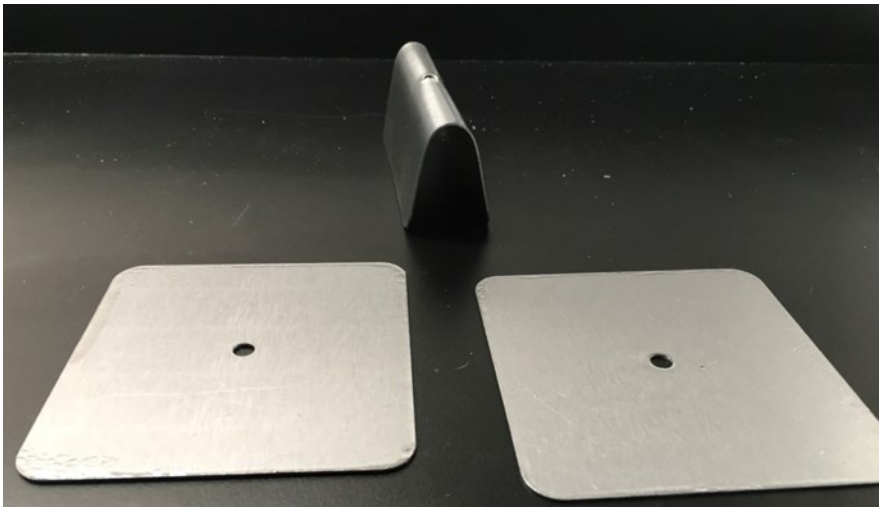
## UV Formulation with Myribond®LX



Myribond®LX on aluminum strips



Myribond®LX on concrete



Myribond®LX on metal panels

Myribond® LX has application potential as a direct-to-metal coating to improve corrosion resistance while maintaining coating flexibility.

## Thermoset

Myribond® LX can be cured via thermal energy. Films blended with metal driers cure tack-free within 24 hours at room temperature. Cast parts cure with the addition of a peroxide. Curing rates vary with temperature.

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## Summary

Myribond® LX can be used to increase adhesion to both low- and high-energy substrates.

In addition, Myribond® LX brings ancillary benefits including a thermal/oxidative curing response as well as depth curing, especially when combined with a metal drier and/or a peroxide.

### Myribond® LX

- ◊ Adheres to a variety of substrates
- ◊ Contributes to tough, flexible coatings with cycloaliphatic character
- ◊ Can cure via UV irradiation, oxidative mechanisms, or thermally.

**SAMPLES AVAILABLE! Order today by calling + 1 617.657.5200 or visiting www.gcinnovationamerica.com.**

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