

**2023 ANNUAL LETTER OF QUALIFICATION
to
COMMERCIAL ITEM DESCRIPTION (CID)
A-A-56032, REVISION D^(Notice-3)
for
50-SERIES Cat-L-Ink LEGEND INKS**

This Letter of Qualification applies to all 50-Series inks manufactured by MacDermid Enthone.

MacDermid Enthone 50-Series inks are not color matched to FED-STD-595 and will not match the color numbers called out in Table II of this specification. The 50-Series inks are approximate matches only to the Federal standard colors.

The undersigned certifies that MacDermid Enthone's 50-Series inks are qualified to the requirements of CID A-A-56032, Revision D as follows:

Type I: All ink and catalyst combinations tested at the specified cure schedules.

Type II: All ink and catalyst combinations tested at the specified cure schedules
EXCEPT:

- 50-700R, 50-710R
- Inks cured at room temperature with Catalyst 20/A

Type III: All ink and catalyst combinations tested at the specified cure schedules

The following ink/catalyst/cure schedule combinations were selected for testing. They are representative of the other colors in the series and comparable results can be expected.

INKS	50-100R, 50-700R, 50-771R
CATALYSTS	
Accelerated Air Cure	Catalyst B-13/28
Basic Air Cure	Catalyst 20/A, Catalyst 77
Heat Cure	Catalyst 20/A, Catalyst B-3, Catalyst 5, Catalyst 9, Catalyst B-13/28, Catalyst 45, and Catalyst 77
CURE SCHEDULES	
Accelerated Air Cure	3 days at room temperature (25°C/77°F)
Basic Air Cure	5-7 days at room temperature (25°C/77°F)
Heat Cure	15 minutes at 150°C/300°F

Air cure conditions can vary considerably (temperature, humidity, air flow, etc.). Also ink coating thickness has a greater impact on final properties when using air cures. When possible a low temperature heat cycle, followed by a full air cure, will ensure product performance. Please contact a MacDermid Enthone Technical Service Representative for additional information.

Product shelf life is warranted from the date of manufacture.



Isaac Contreras
Technical Service Engineer, January 3, 2023