

# EVERYONE WINS WHEN YOU CHOOSE POLYCARBAMIDE CURING AGENTS FOR CONCRETE FLOOR COATINGS

Evonik has developed the advanced polyaspartics, Amicure® IC polycarbamide series, to fill the performance gaps of typical flooring systems. When included in coatings, they provide a unique combination of UV stability, ultrafast return to service, low-temperature cure, high abrasion resistance, and the ability to vary the gloss finish. Even low gloss, satin finishes are now possible with Amicure IC 322 curing agent. Additionally, Amicure® IC 221, IC 321, and IC 322 are designed to be easier to formulate, have adjustable cure rates, are low VOC, and offer the end user a wider operating window for successful application. The products could be used as the complete polycarbamide flooring system or in combination with epoxy floor primers. Amicure® IC Series can be crosslinked with Evonik's VESTANAT® HDI trimers and biurets.



## AMICURE® IC SERIES PRODUCTS PROVIDE MULTIPLE ADVANTAGES VS. TRADITIONAL POLYASPARTICS, INCLUDING

### GREAT AESTHETICS

- UV stability
- "Bubble-free" thick coatings (e.g. 20 mils in one pass)
- Low gloss or "satin" sheen with Amicure IC-322

### EASE IN FORMULATING

- Very few additives required
- Low viscosity
- 2:1 ratio by volume
- Low or no VOC formulations

### IMPROVED COATING PROPERTIES

- High hardness
- Great impact resistance
- No/low emissions

### APPLICATOR'S WINS

- Fast return to service reduces labor costs
- Low temperature cure down to 0°C extends an application window and working season
- Numerous flooring options provide a great competitive advantage

### PROPERTY OWNER WINS

- Fast turnaround reduces downtime
- Strong yellowing resistance, durability and stain resistant increase life cycle and reduce maintenance
- Great variety of customizable colors and sheens allows to create a unique floor
- Environmentally friendly (no/low emissions)



## AMICURE® IC SERIES TYPICAL PROPERTIES VS. OTHER TECHNOLOGIES

	Amicure® IC-221	Amicure® IC-321	Amicure® IC-322	Standard Solvent-Free Epoxy	Standard Aliphatic Polyurea	2K Solvent-Borne PU	Methyl Methacrylate
Color (Gardner)	<1	<1	<1	2	<2	<1	<2
AEW	376	379	373-385	110	279		
Viscosity (cP, 25°C)	350	225	90-120	450	1200	3000	<100
Mix Viscosity (cP, 25°C)	1300	1000	350-500	2000	2550	2000	<100
VOC (g/L, as supplied)	0	0	<100	0	0	100-200	0 (odor)
Viscosity build (minutes to 12,000 cP)	22	55	50-70	60	10	>120	10-20
TFST, phase 2/3 (hr)	0.5/2	1/6	1/6	6/10	0.3/1.5	8/14	<0.5
Shore D (7 days at 5°C)	>70	>70	n/a	>70	>70	n/a	>70
Gardner impact (in.lbs) Direct/Reverse	>160/>160	>160/>160	>160/>160	<10	40/20	>160	<20
Taber abrasion (mg loss) 1000 cycles CS 17 wheel	42	40	50	80	48	60	80
Elongation at break (%)	10%	25%	n/a	7%	8%	48%	3-4%
QUV-A (500 hrs)	4.4	2.2	3.5	>30	<3.5	<2	<3.5

\*Can be used as a complimentary technology with standard solvent-free epoxy.

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#### Disclaimer

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