

## Acid Catalysts for Coatings

### Acid-Catalysts

Product Name	Acid type	Active(%)	Acid Value	Sp.Gr (20°C)	Gardner Color	Application	Count Product
A-Cat 0060	DDBSA	40	75±5	0.90±0.02	8 Max	<ul style="list-style-type: none"> <li>● Fast cure response &amp; Increase hardness</li> <li>● High-Solids baking systems</li> <li>□ Min Cure : 130 °C</li> </ul>	Cat-6000 (Mitsutoatsu)
A-Cat 600	DDBSA	70	135±5	0.98±0.03	5 Max	<ul style="list-style-type: none"> <li>● Higher Activity(%) than A-Cat 0060</li> <li>● Dilution process is required before apply it</li> <li>□ Min Cure : 130 °C</li> </ul>	Cycat-600 (Cytec) XP-221(King)
A-Cat 1050	DNNSA	50	62.5±2.5	0.94±0.03	N/A	<ul style="list-style-type: none"> <li>● General purpose catalyst for Coli coating</li> <li>● Fast cure response &amp; good chemical resistance</li> <li>□ Min Cure : 125 °C</li> </ul>	Nacure-1051
A-Cat 0040	P-TSA	40	135±5	1.00±0.03	1 Max	<ul style="list-style-type: none"> <li>● Fast cure response</li> <li>● Used in General Industrial &amp; Automotive Coatings</li> <li>□ Min Cure : RT</li> </ul>	Cycat-4040 (Cytec)
A-Cat 0040w	P-TSA	40	135±5	1.0±0.03	1 Max	<ul style="list-style-type: none"> <li>● Commonly used in Can coating due to the sensitivity (Two active acids)</li> <li>□ Min Cure : RT</li> </ul>	Cycat-4040 (Water-soluble)

### Blocked-Catalysts

Product Name	Acid Type	Active(%)	pH	Sp.Gr (20°C)	Gardner Color	Application	Count products
B-Cat 0019	DNNSA	30	-	0.96±0.03	N/A	<ul style="list-style-type: none"> <li>● Slightly improved chemical resistance (Anti-Acid &amp; Alkali)</li> <li>□ Min Cure : 150 °C</li> </ul>	Nacure-1419
B-Cat 0021	DNNSA	21	7.0±1.0	0.90±0.03	N/A	<ul style="list-style-type: none"> <li>● Used most in automotive coating in the United State of America</li> <li>□ Min Cure : 150 °C</li> </ul>	
B-Cat 0023	DNNSA	26	7.0±1.0	0.91±0.03	N/A	<ul style="list-style-type: none"> <li>● Excellent humidity and detergent resistance and low conductivity</li> <li>□ Min Cure : 150 °C</li> </ul>	Nacure-1323
B-Cat 0053	DNNSA	25	7.0±1.0	0.88±0.03	8 Max	<ul style="list-style-type: none"> <li>● The best general purpose catalyst for Coil coating</li> <li>□ Min Cure : 150 °C</li> </ul>	Nacure-1953



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## { Blocked-Catalysts }

Product Name	Acid Type	Active(%)	pH	Sp.Gr (20°C)	Gardner Color	Application	Count products
B-Cat 0025	DDBSA	25	6.8±1.0	0.89±0.03	3 Max	● General purpose catalyst for Coil coating □ Min Cure : 120 °C	Nacure-5225
B-Cat 0028	DDBSA	25	7.0±1.0	0.89±0.03	3 Max	● General purpose catalyst for Coil coating □ Min Cure : 120 °C	Nacure-5228
B-Cat 0043	DDBSA	25	6.5±0.5	0.89±0.03	2 Max	● Used in Automotive coating due to the high gloss □ Min Cure : 120 °C	Nacure-5543
B-Cat 0414	DDBSA	25	-	0.997±0.03	4 Max	● Improved Anti-flocculation of pigments stability □ Min Cure : 120 °C	Nacure-5414
B-Cat 0075	DDBSA	50	5.5±0.5	1.02±0.03	3 Max	● Good weatherability and detergent resistance. □ Min Cure : 120 °C	
B-Cat 0450	P-TSA	20	3.0±0.5	1.02±0.02	N/A	● Best storage stability among the P-TSA type acid catalysts □ Min Cure : 80 °C	BYK-450 (BYK)
B-Cat 2134	P-TSA	31	7.5±0.5	0.98±0.03	8 Max	● Fast cure response □ Min Cure : 80 °C	Cater 2134 (Air Pro)
B-Cat 2530	P-TSA	25	6.0±0.5	0.94±0.02	1 Max	● Suitable for General Industrial & Automotive Coating due to the fast cure response □ Min Cure : 80 °C	Nacure-2530
B-Cat 3025	P-TSA	25	6.5±0.5	0.94±0.02	2 Max	● Fast cure response with low temperature. □ Min Cure : 80 °C	Nacure-2500
B-Cat 3028	P-TSA	25	6.0~7.0	1.00±0.03	2 Max	● Excellent cure response and viscosity stability, application for low temperature □ Min Cure : 80°C	Nacure-2500(slightly higher resistivity than N-2500)
B-Cat 4045	P-TSA	20	6.5±1.0	1.14±0.03	N/A	● Amine blocked P-TSA catalyst and recommended for accelerating cure response of amino resins. □ Min Cure : 80 °C	Cycat-4045 (Cytec)
B-Cat 4047	P-TSA	30	6.5±1.0	1.16±0.03	2 Max	● Amine blocked P-TSA catalyst and fast cure response with low temperature. □ Min Cure : 80 °C	B-Cat 4045 (grade up)
B-Cat 0067	Acid Phosphate	25	7.0±0.5	0.93±0.03	2 Max	● Blocked phosphate for high NH/polymeric melamines, excellent stability □ Min Cure : 80 °C	Nacure-4167