Ancamine 2749

External

Ancamine 2749

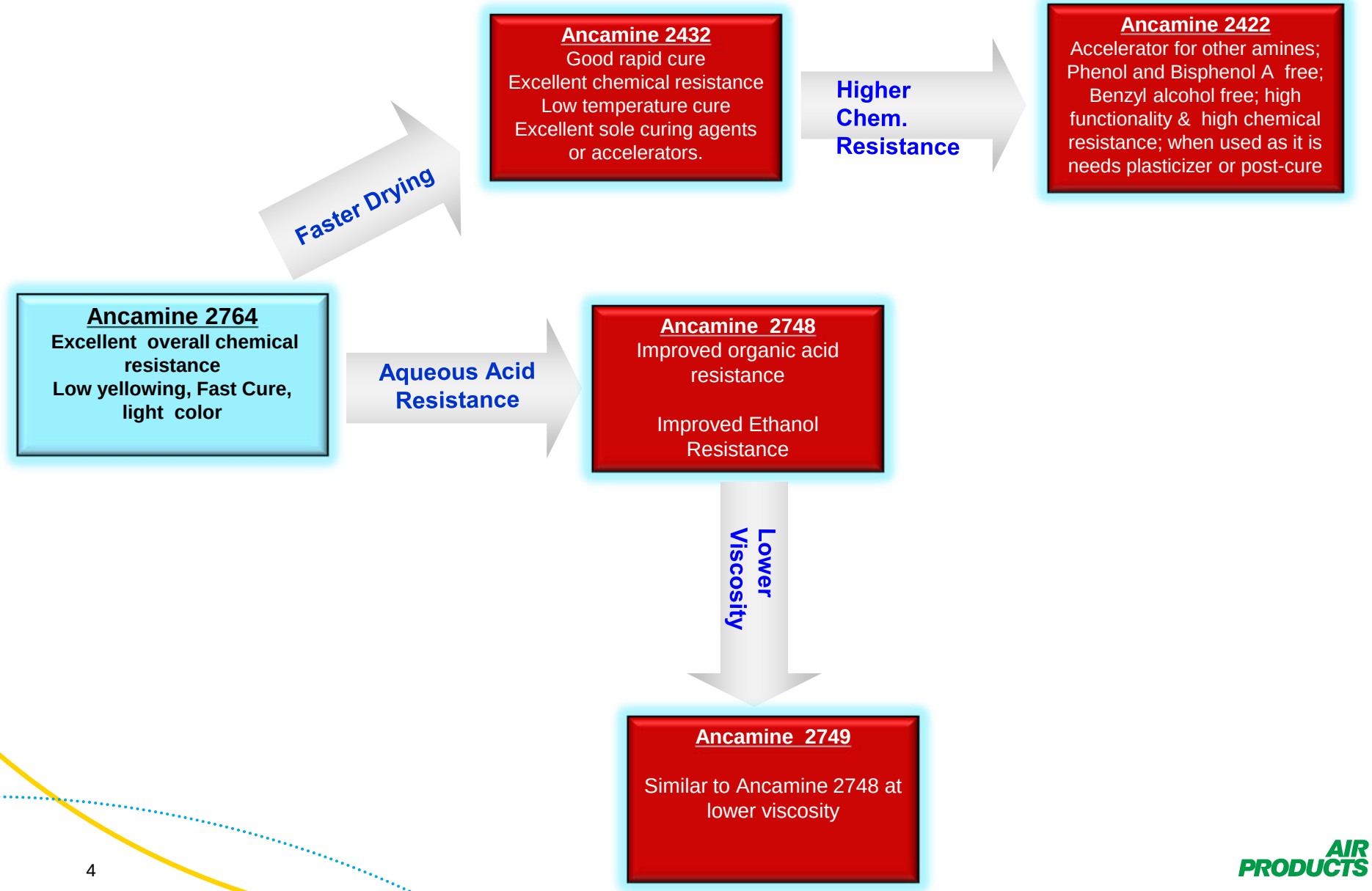
- New cycloaliphatic amine for room temperature cure
- Low viscosity at ambient, 275 cps
- Relatively low cost in use curing agent at 40 phr
- Application in chemically resistant coatings for metal and concrete
- Suggested for use in oil and gas, waste water, secondary containment, flooring markets

Ancamine 2749

Typical Properties

- Viscosity – 275 cps
- Gardener Color – Gardener 8
- Use level 40 phr with 190 EEW resin
- Gel time with 190 EEW resin – 49 minutes
- Thin film set time - 6 hours

Positioning Slide for Chemical Resistance…



AIR PRODUCTS

Chemical resistance With LER

Wt % change

	A2432	A2280	A2334	A2748	A2749
Exposure Time	28 days	28 days	28 days	28 days	28 days
DI Water	1,44	1,55	1,58	1,28	1,31
Methanol	D@7 days	5,98	8,98	9,75	9,09
Ethanol	4,92	7,93	4,08	5,36	5,11
Xylene	0,76	0,57	0,04	1,39	0,34
MEK	D@21 days	D@ 14 days	D@ 3 days	D@ 3 days	D@ 3 days
Butyl Cellosolve	2,52	3,34	0,41	0,0000	3,64
10% Lactic Acid	4,77	4,26	3,26	2,86	3,90
10% Acetic Acid	4,43	6,55	5,61	5,69	4,14
70% Sulfuric Acid	0,19	0,26	0,84	0,49	0,54
50% Sodium Hydroxide	(0,02)	(0,19)	(0,23)	0,16	(0,08)
Gasoline/Ethanol (90/10)	1,16	2,30	1,20	2,32	1,40

Curing agents used at recommended stoichiometric ratio with 190 EEW liquid epoxy resin. Castings cured for seven days at 25C before immersion. Maximum immersion 28 days.

AIR PRODUCTS

Chemical Resistance with LER

Shore D Hardness

	A2432	A2280	A2334	A2748	A2749
	28 days	28 days	28 days	28 days	28 days
Initial Shore D Hardness	82	80	80	82	82
DI Water	80	80	80	82	81
Methanol	Destroyed	70	68	63	62
Ethanol	77	68	77	75	75
Xylene	84	80	85	81	84
MEK	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
Butyl Cellosolve	82	72	82	78	72
10% Lactic Acid	78	78	82	82	78
10% Acetic Acid	78	75	78	70	78
70% Sulfuric Acid	84	82	82	84	81
50% Sodium Hydroxide	85	82	82	83	82
Gasoline/Ethanol (90/10)	80	76	78	76	78

Curing agents used at recommended stoichiometric ratio with 190 EEW liquid epoxy resin. Castings cured for seven days at 25C before immersion. Maximum immersion 28 days.

AIR PRODUCTS

Chemical resistance with Bis-F /Novolak Resin Blend

Wt % Gain

	A2432	A2280	A2334	A2748	A2749
Exposure Time	28 days	28 days	28 days	28 days	28 days
DI Water	1,60	1,82	1,80	1,43	1,57
Methanol	5,45	7,51	10,66	9,13	8,88
Ethanol	3,62	6,64	3,14	4,08	3,94
Xylene	0,36	(0,02)	0,22	0,21	0,09
MEK	15,34	11,68	D@ 7 days	D@ 7 days	D@ 7 days
Butyl Cellosolve	0,06	1,59	(0,05)	1,62	0,00
10% Lactic Acid	6,18	5,54	4,54	3,59	5,95
10% Acetic Acid	5,28	7,98	7,28	6,76	5,49
70% Sulfuric Acid	0,40	0,55	1,83	0,37	0,72
50% Sodium Hydroxide	0,66	(0,11)	(0,12)	(0,06)	(0,07)
Gasoline/Ethanol (90/10)	(0,56)	1,60	0,81	1,34	0,96

Curing agents used at recommended stoichiometric ratio with 60% Bis-F/40% Novolac resin blend. Castings cured for seven days at 25C before immersion.

AIR PRODUCTS

Chemical Resistance…Results using Bis-F / Epoxy Novolac Resin (60/40)

	A2432	A2280	A2334	A2748	A2749
	28 days	28 days	28 days	28 days	28 days
Initial Shore D Hardness	82	80	82	82	82
DI Water	81	80	80	82	82
Methanol	64	58	64	60	60
Ethanol	77	70	77	76	76
Xylene	84	82	82	82	83
MEK	64	55			
Butyl Cellosolve	82	76	82	78	80
10% Lactic Acid	75	77	78	80	75
10% Acetic Acid	75	72	75	72	74
70% Sulfuric Acid	84	82	81	82	82
50% Sodium Hydroxide	82	82	82	82	82
Gasoline/Ethanol (90/10)	80	77	82	77	80

Curing agents used at recommended stoichiometric ratio with 60% Bis-F/40% Novolac resin blend. Castings cured for seven days at 25C before immersion.

AIR PRODUCTS