Applications	1st Recommendation	2nd Recommendation	3rd Recommendation	4th Recommendation	5th Recommendation
PVDF Coatings	BM44	BM44D			
Marine & Container Coatings	BM66	BM65C	BM62	MB-6	
Road Marking	BM64A	BM66	MB-6		
Concrete Cure and Seal	BM65C	BM66D	BM62	MB-6-A	
Plastic Coatings	MB-17/BM60	MB-18-A/BM66	MB-4	MB-6	BM60
Leather Finishes	BM11	MB-8	MB-22		
Wallpaper Coatings	MB-12	MB-4-D			
Ceramic and Glass Transfer Printing Inks	BM24E	MB-10-B			
PVC Shrinkage Film Inks	BM60	BM64A	BM66		
Casket Coatings	BM66	BM60	MB-6	MB-4	
Screen Printing Inks	BM66/MB-6	BM60	BM64A	MB-4	MB-6
Tobacco Packaging Inks	BM17	BM66			
OPP/BOPP Film UV Inks	BM61	BM67			
Alkyd Modifiers & Dark Color Inks	BM67	MB-9-B			
Aerosol Paints and Sprays	MB-6-1/MB-5-C	MB-22	BM820		
Alcohol Soluble Resin	BM51	BM52	BM44	BM61	
Correction Liquids	BM9A	BM67	BM61	BM61A	
Floor Coatings	MB-2	MB-18-A	BM17	BM99A	
Pigment Dispersion	MB-255/MB-256	BM67	MB-9-B		
Automotive Coatings and Refinishes	BM55E	BM66			
Heat Seal Coatings	BM24E	MB-312	MB-10-B	MB-10-C	BM61
Industrial Coatings	BM66	BM64A			
Stencil Inks	BM65C	BM60	BM66		
Unsaturated Polyester	BM99A	BM809			
Anti-Graffiti Coatings	MB-29	MB-70			
Gravure and Flexographic Inks	BM66	BM60	MB-6	MB-4	
Hot Stamping Inks	BM11 (Protection Layer)	BM82 (Adhesive Layer)	BM99/BM199 (Color Layer)	MB-9-B (Adhesive Layer)	MB-12 (Release Layer)
Hot Melt Adhesives	MB-4-G/MB-6-G	BM751	BM751A		

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June 2017

PChem® Acrylic Resins

Polymeric materials for coatings, inks, adhesives and other specialty applications

The Passion for Polymers

About Us

Pioneer Chemicals' history dates back to 1993, based on the core technology of high conversion free radical polymerization, with an emphasis on safety, health, and environment as a priority for sustainable development. “Professionalism, Integrity, Appreciation, & Implementation” are Pioneer’s core philosophy and code of conduct.

Pioneer Chemicals is headquartered in Shanghai, China, with 3 production sites with a combined capacity of more than 23,000 tons/year. We have a product portfolio of more than 200 grades covering a wide range of applications, including coatings, inks, adhesives, plastics, and many other applications.

Pioneer Chemicals is keen on providing customers with personalized services. During the past many years, through the growth of our successful partnerships, we have become a leading supplier of acrylic resins in Asia and a well-known supplier worldwide. Our technology and products are assisting our partners in improving product performance, cost-effectiveness and in enhancing value creation.

Received ISO9001: 2008
quality management system certification
Received ISO14001:2015 and
OHSAS18001:2007 Certificates

Historic Milestones

- 1993 Jiulong Fine Chemicals was established
- 2003 Restructuring of Jiulong, Pioneer Chemicals Co., Ltd. was established
- 2005 Pioneer Chemicals (Yangzhou) Co., Ltd. was established to increase production capacity
- 2012 Pioneer Solutions Americas Inc. was established in California, USA
- 2013 Pioneer Solutions Europe BVBA was established in Antwerp, Belgium
- 2013 Pioneer Chemicals headquarters moved to a new business building in Jiading, Shanghai
- 2013 Pioneer Chemicals (Yangzhou) second plant became operational, increasing production capacity by a further 17,000 tons/year
- 2014 Pioneer Solutions Asia Pacific Ltd. was established in Hong Kong
- 2015 Pioneer Chemicals Co. introduces EChem™ and acrylic polyol products
- 2016 Pioneer Chemicals Co. introduces acrylic powder coating resins (GA series products) for automotive and other coating applications
- 2017 Pioneer Chemicals Co. introduces WChem™ water dispersible resins for applications of printing inks and graphic arts

Company Culture and Philosophy

- “Professionalism, Integrity, Appreciation, and Implementation”

Product Overview

PChem® acrylic resins are based on Pioneer Chemicals' 20 years of product development, manufacturing expertise and field applications. Pioneer Chemicals manufactures its products by selecting appropriate monomer compositions for high conversion free radical polymerization reaction, in order to form polymers for a wide variety of applications. The common raw materials include methacrylates, acrylates and many other monomers. The physical forms of PChem® acrylic resins are beads, powders or pellets, for users to choose. The polymer's structure-property relationship is the core art of design for our R&D function of new product development. Our resins are compatible with many other film forming resins, such as chlorinated rubber, polyvinyl chloride, polyvinyl acetate, nitrocellulose, cellulose acetate butyrate, as well as with many pigments, dyes, additives and solvents. With its unique functionalities, PChem® offers excellent weathering/UV resistance and the best optical properties, such as high gloss, high light transmittance and low haze. PChem® also offers good biocompatibility and recycling capability because of the nature of its chemical structure.

Typical Performance

- Outstanding weathering, and UV resistances with superior fade resistance
- Safe and nontoxic with excellent biocompatibility
- The best optical properties such as high gloss, high light transmittance and low haze
- Excellent pigment dispersion characteristics for coatings, inks, adhesives and plastics
- Excellent compatibility with many other resins, solvents, pigments/dyes and additives

Global Markets

N. America
Canada
USA
Mexico

Central / S. America
Brazil
Argentina
Colombia
Peru
Costa Rica
Bahamas

Africa
Egypt
South Africa

Europe
Germany
France
Poland
Greece
Russia
Saudi Arabia
Lebanon
Ukraine
Spain
Italy
UK
Turkey

Asia
China
Japan
Korea
India
Pakistan
Vietnam
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www.pioneerchemicals.com

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Pioneer Solutions Americas
www.psaminc.com

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www.pseu.eu

Process Setting

PChem® products are available according to end users' needs

- Resin appearance: beads, powders, pellets and melt
- MB series: beads, particle size ranges from 50 um to 700 um
- BM series: powders, pellets, particle size ranges from 20 um to 3 mm

Key Physical Properties

- Molecular weight (Mw): 4,000 to 1,500,000
- Glass transition temperature (Tg°C): -80 to 145
- Acid number (mgKOH/g): 0 to 300
- Hydroxyl number (mgKOH/g): 0 to 150

BM Series

Grades	Molecular Weight (Mw)	TG (°C)	Inherent Viscosity (IV)	Acid Number (mgKOH/g)	Hydroxyl Number (mgKOH/g)	Solubility						Properties & Performance
						Aromatics	Alcohols	Chlorinated Hydrocarbons	Higher alcohols	Esters	ketones	
BM9	70,000	56	0.31	≤1.0		●		●	●	●	●	Good pigment dispersion, excellent weathering resistance
BM9A	130,000	56	0.5	≤1.0		●		●	●	●	●	Hard flexible and durable. High gloss and good pigment dispersion, excellent weathering resistance
BM11	85,000	100	0.36	≤ 1.0		●				●	●	High hardness & rigidity, good compatibility with NC, CAB, excellent alcohol resistance, gasoline resistance, water resistance, high durability, and weatherability
BM17	90,000	85	0.4	≤ 1.0		●				●	●	Good durability, good weatherability, good alcohol and plasticizer resistance, excellent compatibility with NC, CAB and good reflow of silver powders
BM17A	90,000	85	0.4	3.5		●				●	●	Similar to BM17 but with some acids to help pigment disperaion and stabality
BM24E	160,000	32	0.43	≤ 1.0		●		●	●	●	●	Good pigment wetting and color strength. Excellent compatibility to Al flakes and gold bronze pigments. Usable for cigarette packaging. Proven depolymerisation behavior for ceramic transfer lacquers
BM24G	180,000	33	0.47	≤1.0		●		●	●	●	●	Good pigment wetting and color strength, great for ceramic and glass transfer printing lacquers
BM44	100,000	60	0.4	≤ 2.0		●				●	●	Exceptional combination of hardness flexibility and adhesion to various substrates, good compatibility with wide latitude in formulations, excellent weatherability
BM51	60,000	33	0.27	≤ 1.0	60		●					Alcohol soluble, exceptional adhesion and flexibility
BM52	70,000	60	-	67	22		●					Alcohol soluble, good adhesion, good pigment dispersion
BM55E	100,000	68	0.38	<1.0		●		●		●	●	Excellent adhesion to aluminum and unsaturated polyester
BM55F	20,000	68	0.14	<1.0		●		●		●	●	Excellent adhesion to aluminum and unsaturated polyester
BM56A	39,000	50	0.19	6		●		●		●	●	For use in the lower VOC concrete sealer, paint markets, plastic coatings, gravure inks as well as for metal adhesion needs
BM60	40,000	75	0.2	10		●		●		●	●	Fast drying, good compatibility, good pigment dispersion
BM60E	35,000	75	0.17	3.7		●		●		●	●	Lower Mw than BM60 for faster dissolution needs
BM60K	28,500	75	0.16	8.5		●		●		●	●	Lower Mw than BM60 for faster dissolution needs
BM61	50,000	32	0.26	6.5		●	●			●	●	Excellent flexibility and adhesion to various substrates with low shrinkage rate and odor
BM61A	50,000	32	0.23	≤ 1.0		●	●			●	●	Fast drying, low viscosity, exceptional pigment dispersion
BM62	45,000	65	0.18	≤8.0		●		●		●	●	Excellent weathering and anti-corrosion properties, marine applications
BM64A	40,000	60	0.18	4.5		●				●	●	Fast drying, low viscosity, exceptional pigment dispersion
BM65C	40,000	55	0.19	6.5		●				●	●	Fast drying, low viscosity, exceptional pigment dispersion
BM66	50,000	50	0.27	6.5		●			●	●	●	Broad applications, fast drying, good compatibility, excellent salt spray resistance
BM66D	45,000	50	0.25	6.5		●				●	●	Fast drying, low viscosity, exceptional pigment dispersion, good weatherability
BM66R	47,000	50	0.2	6.5		●			●	●	●	Broad applications, fast drying, good compatibility, excellent salt spray resistance
BM67	50,000	50	0.19	≤1.0		●		●	●	●	●	Excellent pigment dispersion, fast drying
BM68	48,000	50	0.21	8		●			●	●	●	Broad applications, fast drying, good compatibility, excellent salt spray resistance

BM Series

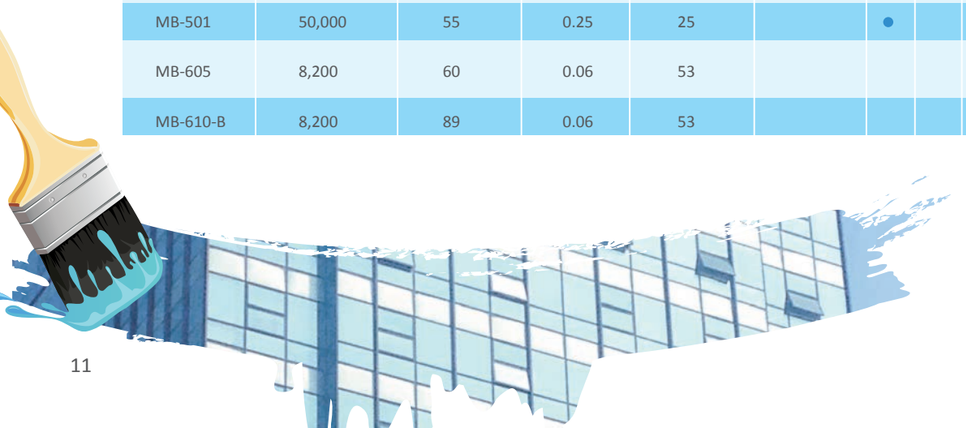
Grades	Molecular Weight (Mw)	TG (°C)	Inherent Viscosity (IV)	Acid Number (mgKOH/g)	Hydroxyl Number (mgKOH/g)	Solubility						Properties & Performance
						Aromatics	Alcohols	Chlorinated Hydrocarbons	Higher alcohols	Esters	ketones	
BM72	32,000	54	0.15	6.5		●			●	●	●	Low VOC, for heat sealing lacquer and traffic marking
BM76	105,000	61	0.37	8		●			●	●	●	Excellent outdoor durability and chemical resistance for use in protective coatings, concrete sealers, seamless flooring, wood coatings
BM81	30,000	103	0.12	2		●		●	●	●	●	Offer fast tack-free time, heat resistance; plastic coating and ink
BM82	90,000	35	0.37	≤ 3.0		●				●	●	Flexibility, good weatherability, durability, good solvent release ability
BM97	50,000	105	0.18	12						●	●	Good for pvc pipe adhesives and structure adhesives
BM97A	108,000	105		12						●	●	Higher Mw of BM97, good for pvc pipe adhesives and structure adhesives
BM99	20,000	113	-	-						●	●	Fast drying, low viscosity, exceptional pigment dispersion
BM107	107,000	90		9		●		●		●	●	High hardness & rigidity, good compatibility with NC, CAB, excellent alcohol resistance, gasoline resistance, water resistance, high durability, and weatherability
BM111	110,000	110	0.48	≤1.0		●				●	●	Since its high Mw and high heat resistance, it is very good for applications of PVC top coat and plastic coating
BM112A	70,000	32	0.24	≤1.0		●		●		●	●	It offers excellent adhesion, flexibility, low shrinkage rate and durability. It is commonly used in UV curing technology
BM121	90,000	105	0.36	3.7		●			●	●	●	Excellent intercoat adhesion, hardness, and outdoor durability
BM131	84,000	104	0.4	≤1.0		●				●	●	High hardness & rigidity, good compatibility with NC, CAB, excellent alcohol resistance, gasoline resistance, water resistance, high durability, and weatherability; good for flexographic inks
BM141	23,000	37	0.13	7		●			●	●	●	For use of toner inks in applications of ceramic transfer printing inks
BM164	92,000	62	0.4	≤ 3.0		●				●	●	Outstanding combination of hardness, flexibility, and adhesion to various substrates. It is suitable for clear coating of interior and exterior concrete floors and road surface
BM199	15,000	80	0.11	5		●			●	●	●	Medium oil alkyd compatible and pigment dispersant
BM215	44,000	58	0.2			●			●	●	●	Excellent alkyd compatibility and pigment dispersion
BM218	160,000	35	0.54	≤1.0		●		●	●	●	●	Common applications are ceramic coatings, aerosol paints, a good aluminum finishes.
BM248	220,000	63	0.83	0		●	●			●	●	Inks for paper and plastics
BM260	20,000	50	0.11	≤7.0	35	●			●	●	●	Good raw material for 2K systems in printing inks
BM275	60,000	45	0.25	12		●	●			●	●	Good adhesion to BOPP and PET substrates. Good for flexo and gravure inks and wood finishes
BM290	15,400	77	0.46	3		●				●	●	For applications of low profile additive and SMC
BM655	10,000	62	0.1	55	24					●	●	High acid resin, good for hot melt adhesive
BM701C	200,000	-45	0.4	<1	9	●		●		●	●	Binder for pressure sensitive adhesives, hotmelt adhesives
BM723	8,000	-49	0.06	0	34	●		●		●	●	Binder for pressure sensitive adhesives, hotmelt adhesives
BM751	25,000	49	0.13	6	9	●		●		●	●	Binder for moisture curable reactive PU hot melt adhesives
BM751A	50,000	49	0.24	6	9	●		●		●	●	Binder for moisture curable reactive PU hot melt adhesives

MB Series

Grades	Molecular Weight (Mw)	TG (°C)	Inherent Viscosity (IV)	Acid Number (mgKOH/g)	Hydroxyl Number (mgKOH/g)	Solubility						Properties & Performance
						Aromatics	Alcohols	Chlorinated Hydrocarbons	Higher alcohols	Esters	ketones	
MB-2	140,000	104	0.65	≤ 1.0		●				●	●	High hardness, high gloss and scratch resistance, chemical resistance
MB-4	40,000	75	0.19	6		●		●		●	●	Fast drying, good adhesion to plastic substrates, good solubility and pigment dispersion, good compatibility with CAB, vinyl resins and chlorinated rubbers
MB-4-E	25,000	75	0.13	6		●		●		●	●	A lower Mw version of MB-4 and it has fast drying, good adhesion to plastic substrates, good solubility and pigment dispersion, good compatibility with CAB, vinyl resins and chlorinated rubbers
MB-4-G	40,000	75	0.19	4.0		●		●		●	●	A similar grade to MB-4 but it is good for hot melt adhesive applications and other advanced reaction related applications
MB-5-C	270,000	68	0.7	≤ 1.0		●				●		Good solvent release, outstanding hard and durability, high viscosity and chemical resistance; for aerosol spray and specialty ink resin.
MB-6	50,000	50	0.27	3.5		●			●	●	●	Speed solvent release, high gloss, good pigment dispersion and weatherability, good compatibility, general purpose grade, exceptional resistance to water & salt
MB-6-1	200,000	60	0.7	≤ 1.0		●				●		Good solvent release, outstanding hard and durability, high viscosity and chemical resistance; for aerosol spray and specialty ink resin
MB-6-A	50,000	50	0.26	7		●		●		●	●	Fast drying, high gloss and compatibility, good pigment dispersion
MB-6-AX	50,000	50	0.26	7		●		●		●	●	Fast drying, high gloss and compatibility, good pigment dispersion, good for 2K reaction system
MB-6-C	60,000	58	0.23	≤1.0		●		●	●		●	High gloss, fast drying, good pigment dispersion
MB-6-G	60,000	55	0.24	3.5		●			●	●	●	A similar grade to MB-6-A but good for hot melt adhesive applications and other advanced reaction related applications
MB-6-S	45,000	55	0.25	6.5		●		●		●	●	Economic grade of MB-6-A, fast drying, good compatibility and pigment dispersion
MB-8	90,000	96	0.4	≤ 1.0		●		●		●	●	Good durability, good weatherability, good alcohol gasoline, and plasticizer resistance, exceptional compatibility, with NC, CAB and good reflow of silver powders
MB-9	200,000	55	0.56	≤ 1.0		●		●	●	●	●	Hard, flexible, durable, and high gloss, excellent adhesion to substrates, excellent weatherability
MB-9-A	100,000	55	0.46	≤1.0		●		●	●	●	●	Good pigment dispersion, excellent weathering resistance
MB-9-B	70,000	55	0.34	≤ 1.0		●		●	●	●	●	Good durability, good weatherability, good alcohol gasoline and plasticizer resistance, exceptional compatibility with NC, CAB and good reflow of silver powders
MB-10	180,000	32	0.52	≤ 9.0		●		●	●	●	●	Flexible and high gloss, good adhesion to aluminum substrates, good compatibility and resistance to water, low odor
MB-10-B	160,000	32	0.46	≤ 1.0		●		●	●	●	●	Flexible, glossy, good compatibility, low odor and good water resistance
MB-11	60,000	48	0.27	10		●	●			●	●	Alcohol soluble resin for printing ink
MB-11-A	60,000	48	0.27	10		●	●			●	●	Alcohol soluble resin for printing ink
MB-12	50,000	104	0.28	≤ 1.0						●	●	Hard and durable, low viscosity and good compatibility, good alcohol resistance, gasoline resistance, plasticizer resistance, good weatherability
MB-16	54,000	50	0.25	3.5	1.3	●			●	●	●	Good for hot melt adhesive applications and other advanced reaction related applications
MB-17	90,000	85	0.4	≤ 1.0		●				●	●	Alcohol resistant, durable, weatherability, plasticizer resistance, good solvent release skill, compatibility
MB-18	90,000	93	0.41	≤1.0		●				●	●	High hardness, excellent rub and scratch resistance, good compatibility with NC and CAB, exceptional alcohol resistance, gasoline resistance

MB Series

Grades	Molecular Weight (Mw)	TG (°C)	Inherent Viscosity (IV)	Acid Number (mgKOH/g)	Hydroxyl Number (mgKOH/g)	Solubility						Properties & Performance
						Aromatics	Alcohols	Chlorinated Hydrocarbons	Higher alcohols	Esters	ketones	
MB-18-A	120,000	98	0.49	≤ 1.0		●				●	●	High hardness, excellent rub and scratch resistance, good compatibility with NC and CAB, exceptional alcohol resistance, gasoline resistance
MB-19	34,000	75	0.17	7	3.2	●			●	●	●	Good for hot melt adhesive applications and other advanced reaction related applications
MB-22	280,000	104	0.97	≤ 1.0						●	●	High molecular weight, high hardness and rigidity, exceptional rub and scratch resistance, no tacky property
MB-38	84,000	65	0.31	≤ 1.0		●		●	●	●	●	Excellent applications of alkyd resin's additive and printing inks
MB-45	180,000	50	0.81	≤ 1.0		●				●	●	Outstanding hardness and flexible
MB-48-N	120,000	40	0.4	21		●		●			●	Good adhesion to unprimed and untreated metal
MB-48-X7	180,000	61	0.5	21		●		●			●	Good adhesion to unprimed and untreated metal
MB-57	45,000	64	0.23	7.0		●		●		●	●	Acrylic-styrene copolymer for concrete curing and sealing applications
MB-71	100,000	50	0.6	3.5		●			●	●	●	Fabric screen ink, pvc replacement in automotive plastisol
MB-153	68,000	56	0.29	6.5		●		●		●	●	Acrylic-styrene copolymer for concrete curing and sealing applications
MB-244	140,000	20	0.51	≤1.0		●				●	●	Good adhesion to aluminum and PS; binder for pigmented lacquer
MB-247	450,000	108	1.25	≤ 1.0		●					●	For casting and embedment applications
MB-250	300,000	122	1	≤ 1.0		●					●	High Mw resin for coatings where chemical resistance especially for petroleum and alcohol are required
MB-256	5,000	75	0.09	3.5		●		●		●	●	Excellent pigment dispersion, general carrier resin for color masterbatch
MB-304-C	120,000	38	0.27	6.5		●			●	●	●	Good pigment wetting and color strength. Excellent compatibility to Al flakes and gold bronze pigments. Usable for cigarette packaging. Proven depolymerisation behavior for ceramic transfer lacquers
MB-311	30,000	39	0.15	≤ 1.0		●		●	●	●	●	Low viscosity, glossy, easy flow and good flexibility
MB-312	130,000	39	0.43	≤ 1.0		●		●	●	●	●	Good carrier resin for heat sealing lacquer applications
MB-313	60,000	57	0.23	10		●		●		●	●	Fast drying, low viscosity, exceptional pigment dispersion
MB-318	35,000	55	0.18	3.5		●		●		●	●	Fast drying, high gloss and compatibility, good pigment dispersion
MB-501	50,000	55	0.25	25		●			●	●	●	Fast drying, high gloss and compatibility, good pigment dispersion
MB-605	8,200	60	0.06	53						●	●	Compatible with most resins for fast dry, high gloss for solvent based fluid inks and overprint varnishes
MB-610-B	8,200	89	0.06	53						●	●	Compatible with most resins for fast dry, high gloss for solvent based fluid inks and overprint varnishes



Formulation Guide

1. PVDF coating	w/w(%)
BM44	10
PVDF resin	24
xylene	26
BCS	8
Isophorone	10
Pigment	21
Auxiliary	0.5-1.0
Total	100

2. Aluminium paint (plastic paint)	w/w(%)
Varnish	
BM-17	32
CAB381-20 (or CAB381-2)	2.5
EAC	30
BAC	7.0
MEK	15
TOL	5.0
BCS	8.0
Auxiliary	0.5
Total	100
Aluminum paint	
Aluminum powder	8-10
TOL	8-10
Varnish	80-84
Total	100
Thinner	
EAC	20
BAC	10
MEK	20
IPA	25
DAA	5
120#	5
BCS	15
Total	100

Note: according to different situation, BM11, MB-18-A can also be used, and the ratio of CAB should be adjusted.

3. Container coating	w/w(%)
BM65C or BM62	20-25
Pigment,filler	20-25
Xylene	10-15
S100#	30-40
Leveling agent, dispersant	0.5-1
Total	100

4. PVC screen printing inks	w/w(%)
BM60 or BM64A	14
PVC vinyl acetate	7
Titanium dioxide	23
Cyclohexanone	10
S100（solvent mesitylene）	19
Diacetone alcohol	15
Glycol acetate	10
Auxiliary or plasticizer	2
Total	100

Note:solid content:46%, pigment/resin=1:1

Note:according to different situation, other PChem® resin also can be used.

5. Gravure inks	w/w(%)
Slurries	
Phthalocyanine blue	15
Pigment dispersion resin	5
MIBK	80
Total:	100
Paint	
Slurries	76.9
BM66(50% toluen, prepared)	15.5
Note:solid content:23% pigment/resin=1:1	
Diacetone alcohol	3.8
Cyclohexanone	3.8
Total	100

6. Cement paint, exterior paint	w/w(%)
BM66D or BM66	22-30
Xylene	12
S100#	25
NBA	2
Pigment	15-20
Heavy Calcium carbonate	14
Talcum powder	5
Auxiliary	1
Total	100

Note:according to different sitiulation, other PChem® resin also can be used, such as MB-6.

7. Leather(PVC/PU) coating	w/w(%)
BM11	6.5
PVC powder	7.5
Pigment	15-20
DMF	20
MEK	30
CYC	15
Auxiliary	1
Total	100

Note:according to different situation, other PChem® resin also can be used, such as MB-8, MB-22, MB-2.

8. Ceramic cover oil	w/w(%)
BM24E	38-40
S100#	40
BCS	6
S150#	14
Auxiliary	0.5
Total	100

Compatibility with Other Resins

Items	Cellulose Resins								Polyvinyl Chloride Resins								Chlorinated Rubber			
	1/4NC				CAB Resins (CAB381-0.5)				P(VC-VA)				P(VC-VA-MA)							
	10%	30%	50%	70%	10%	30%	50%	70%	10%	30%	50%	70%	10%	30%	50%	70%	10%	30%	50%	70%
BM11	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM17	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM24E	C	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	X	X	X	X
BM44	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM51	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM52	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	X	X	X	X
BM60	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM61	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM65C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM66	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM66D	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
BM67	C	C	C	C	C	C	C	C	X	X	X	X	X	X	X	X	X	X	X	X
MB-2	X	C	C	C	X	X	X	X	C	C	C	C	C	C	C	C	M	M	M	M
MB-4	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-6	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-6-1	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-6-A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-8	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-9	C	C	C	C	C	C	C	C	X	X	X	X	X	X	X	X	X	X	X	X
MB-10	C	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	X	X	X	X
MB-10-B	C	C	C	C	C	C	C	C	M	M	M	M	M	M	M	M	X	X	X	X
MB-12	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M
MB-18-A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	M	M	M	M

C——Compatible M——Partially Compatible X——Not Compatible