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Color & Comfort



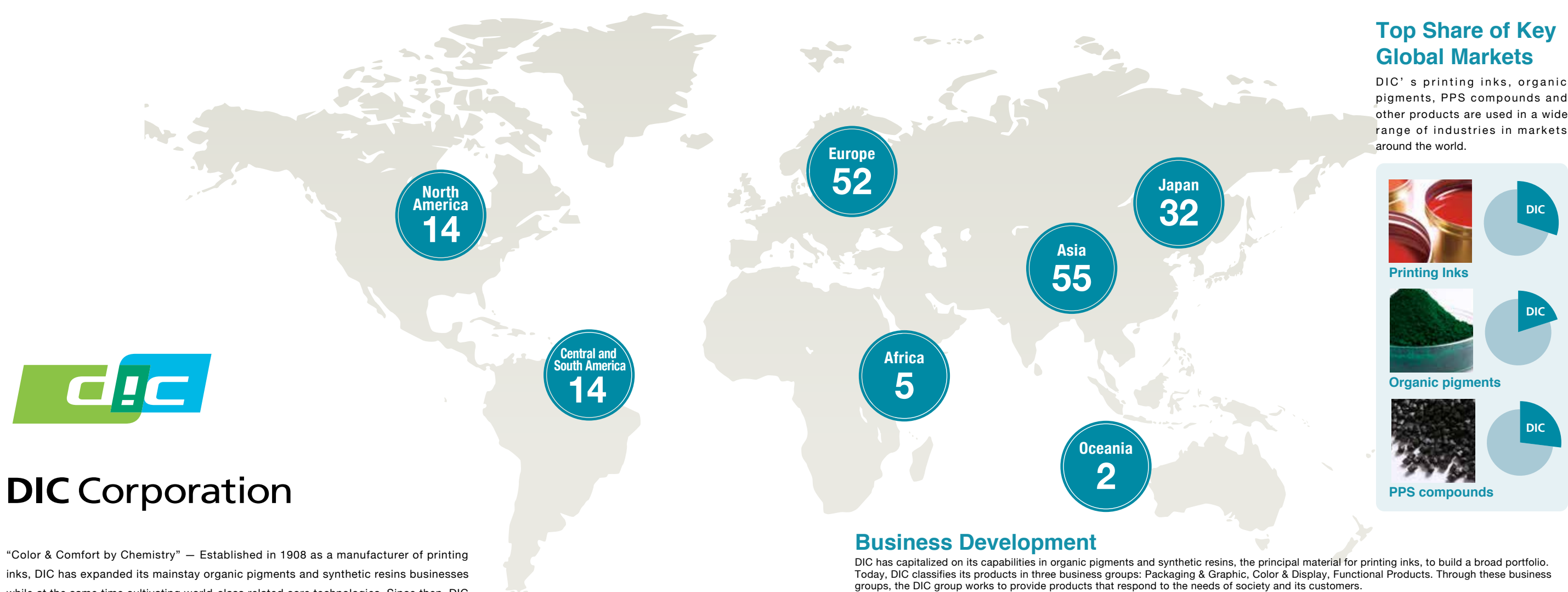
PRODUCT GUIDE

COATING RESINS 2020

India

DIC Corporation

We are a fine chemicals company that works to bring people “Color & Comfort by Chemistry”



DIC Corporation

“Color & Comfort by Chemistry” — Established in 1908 as a manufacturer of printing inks, DIC has expanded its mainstay organic pigments and synthetic resins businesses while at the same time cultivating world-class related core technologies. Since then, DIC has leveraged these technologies to build a broad portfolio encompassing materials and finished products. This has enabled the Company to respond to market needs by providing customers in the automotive, electronics, food packaging, housing and other industries with solutions that bring “color” and “comfort” to people’s lives. Looking ahead, DIC —today a multinational organization with operations in more than 60 countries and territories— will redouble its efforts to contribute to environmental protection and to the realization of a safe and sustainable society.

| Corporate Data | | (As of December 31, 2019) |
|---------------------------------------|--|---------------------------|
| Company Name | : DIC Corporation | |
| Headquarters | : DIC Building, 7-20, Nihonbashi 3-chome, Chuo-ku, Tokyo 103-8233, Japan | |
| Date of Foundation | : February 15, 1908 | |
| Paid-in Capital | : ¥96.6 billion | |
| Number of Employees | : Consolidated 20,620, Non-consolidated 3,538 | |
| Number of Subsidiaries and Affiliates | : 174 (Domestic:32, Overseas:142) | |

Top Share of Key Global Markets

DIC’s printing inks, organic pigments, PPS compounds and other products are used in a wide range of industries in markets around the world.



Business Development

DIC has capitalized on its capabilities in organic pigments and synthetic resins, the principal material for printing inks, to build a broad portfolio. Today, DIC classifies its products in three business groups: Packaging & Graphic, Color & Display, Functional Products. Through these business groups, the DIC group works to provide products that respond to the needs of society and its customers.

Packaging & Graphic

Packaging materials that bring safety and peace of mind

Printing Material Products Division
Packaging Material Products Division

- Offset inks
- Gravure inks
- Flexo inks
- Can coatings
- Inkjet inks
- News inks
- Printing supplies
- Packaging adhesives
- Multi-layer films
- Polystyrene

Color & Display

Color and display materials that make life colorful

Color Material Products Division
Display Material Products Division

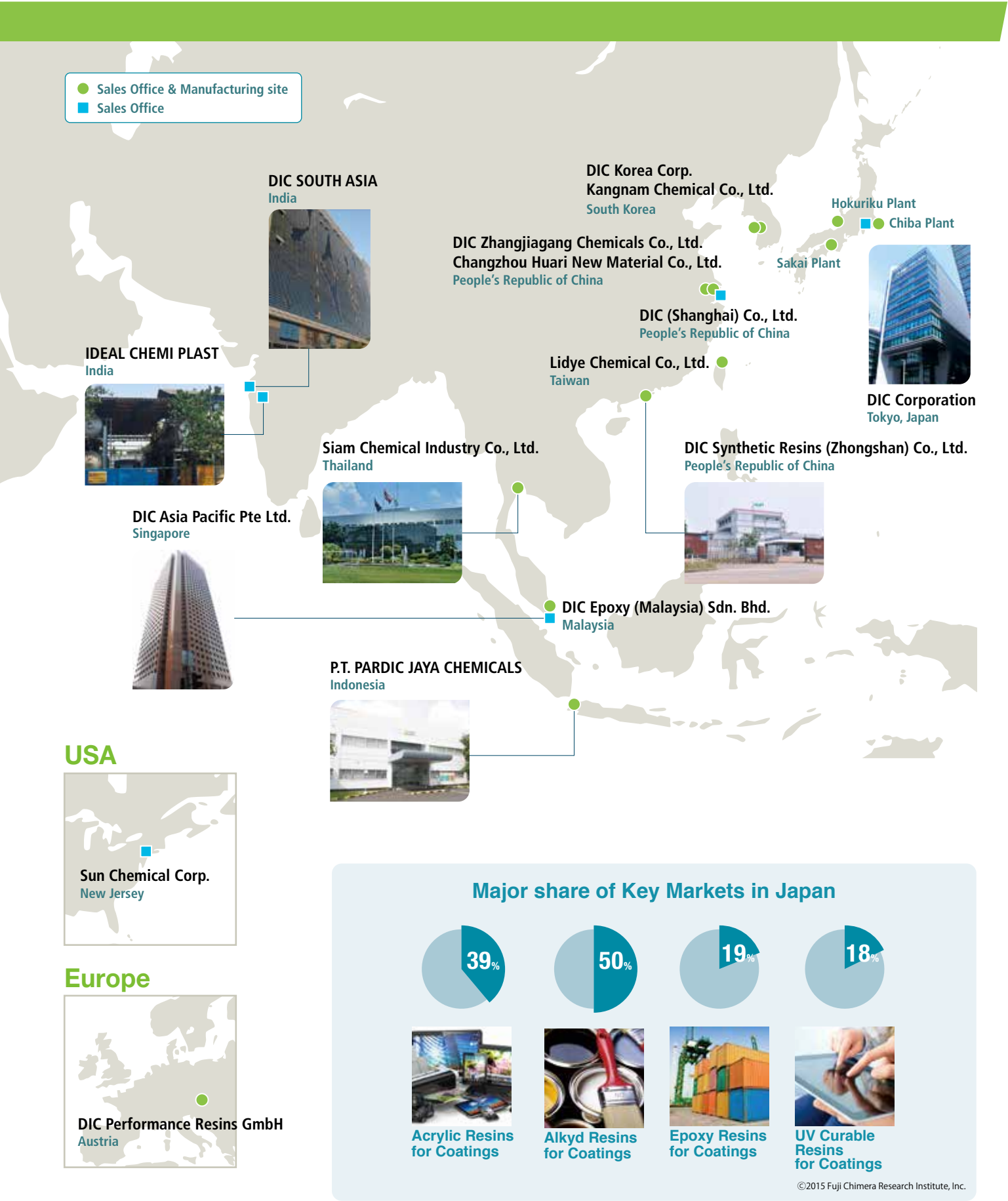
- Organic pigments
- Special effect pigments
- Health foods
- Food additives
- TFT LC materials
- STN LC materials

Functional Products

Functional products that add comfort

Performance Material Products Division
Composite Material Products Division

- Water-based resins
- UV-curable resins
- Acrylic resins
- Methacrylate resins
- Epoxy resins
- Phenolic resins
- Fluorochemicals
- Polyurethane resins
- Polyester resins
- Plasticizers
- Unsaturated polyester resins
- Alkylphenols
- Metal carboxylates
- Sulphur chemicals (lubricant additives)
- PPS compounds
- High-performance compounds
- Plastic colorants
- High-performance optical materials
- Fiber and textile colorants and artificial leather colorants
- High-performance coatings and adhesive materials
- Coatings for optical films
- Industrial adhesive tapes
- Magnetic tapes and coated sheets
- Hollow-fiber membranes and modules
- Decorative boards, interior housing products and coatings for building materials
- Decorative sheets and decorative films
- Processed sheet molding compounds (SMCs)
- Molded plastic products



Automotive Refinishes

P05

ACRYLIC RESINS
UNSATURATED POLYESTER RESINS (UPR)
POLYESTER RESINS
EPOXY ESTER RESINS
ALKYD RESINS

Thermosetting Metal Coatings

P07

POLYESTER RESINS
AMINO RESINS
ACRYLIC RESINS
POWDER RESINS
EPOXY RESINS
EPOXY ESTER RESINS
ALKYD RESINS

Protective Coatings

P11

ACRYLIC RESINS
WATERBORNE ACRYLIC RESINS & POLYISOCYANATES
EPOXY RESINS
EPOXY ESTER RESINS
POLYAMIDE RESINS
SILICONE MODIFIED RESINS
ORGANIC-INORGANIC HYBRID RESINS
ALKYD RESINS

Plastic & Glass Coatings

P15

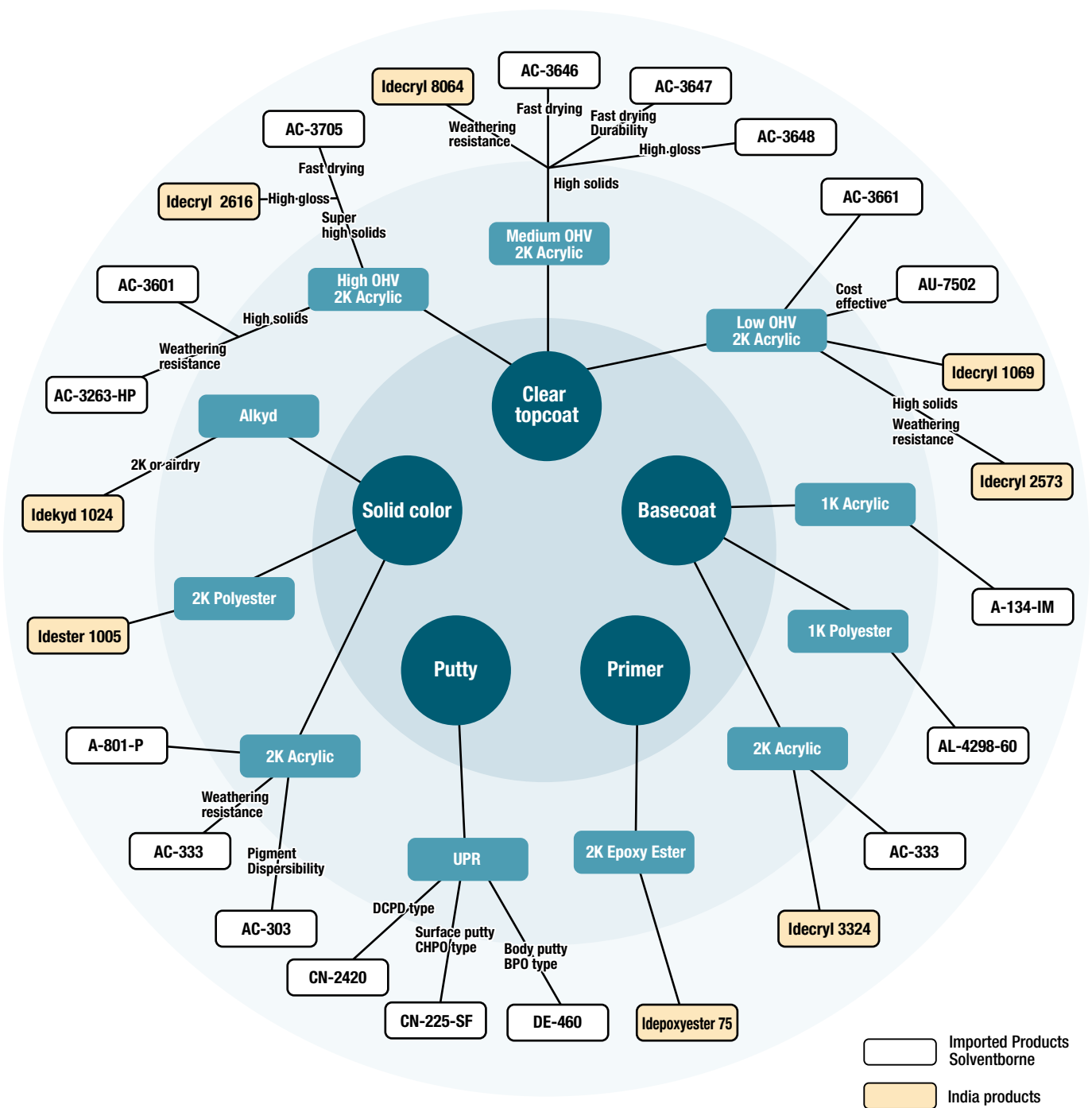
ACRYLIC RESINS
OLEFIN MODIFIED ACRYLIC RESINS
UV CURABLE RESINS
ALKYD RESINS

Wood Coatings

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ACRYLIC RESINS
WATERBORNE ACRYLIC RESINS
ALKYD RESINS
UV CURABLE RESINS
UNSATURATED POLYESTER RESINS (UPR)
POLYESTER RESINS
POLYURETHANE RESINS

Product Tree for Automotive Refinishes



Product Characteristics for Automotive Refinishes

Clear topcoat

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------------------|--------------------|-------------------------|-------------------|--|--------------------------|-------------------|---------------------------------|----------------|--|
| High OHV 2K Acrylic | ACRYDIC AC-3263-HP | n-Butyl Acetate | 69.0 - 71.0 | Z - Z ₃ | 124-133 | 3.8 - 4.0 | 4 - 10* | 1 max. | High solids, appearance, film build, weathering resistance |
| | ACRYDIC AC-3601 | n-Butyl Acetate | 69.0 - 71.0 | Z ₂ - Z ₄ | 154-166* | 4.7 - 5.0 | 4 - 10* | 1 max. | High gloss, hardness, chemical resistance |
| | Idecril 2616 | Xylene, n-Butyl Acetate | 72.5 - 75.5 | Z ₃ - Z ₄ | 150 | 4.5* | 5 - 8 | 1 max. | High gloss (DOI), gasoline resistance |
| | ACRYDIC AC-3705 | n-Butyl Acetate | 74.0 - 76.0 | Z ₄ - Z ₆ | 145 - 155 | 4.4 - 4.7 | 6 max. | 1 max. | Super high solids, fast drying, chemical resistance |
| Medium OHV 2K Acrylic | Idecril 8064 | Xylene | 68.0 - 72.0 | 48 - 58 (Seconds, 30°C, Ford cup #4, 77 % solution in n-Butyl Acetate) | 95 - 105 | 2.9 - 3.2* | 5 max. | 1 max. | High gloss, durability |
| | ACRYDIC AC-3646 | n-Butyl Acetate | 69.0 - 71.0 | Z ₃ - Z ₆ | 90 - 100 | 2.7 - 3.0 | 5 max.* | 1 max. | Fast drying, high gloss, adhesion |
| | ACRYDIC AC-3647 | n-Butyl Acetate | 69.0 - 71.0 | Z ₃ - Z ₇ | 90 - 100 | 2.7 - 3.0 | 5 max.* | 1 max. | Fast drying, high gloss, adhesion, weathering resistance |
| | ACRYDIC AC-3648 | n-Butyl Acetate | 69.0 - 71.0 | Z - Z ₃ | 90 - 100 | 2.7 - 3.0 | 5 max.* | 1 max. | High gloss |
| Low OHV 2K Acrylic | ACRYDIC AC-3661 | Xylene | 59.0 - 61.0 | W - Z | 53 - 67 | 1.6 - 2.0 | 5 max.* | 1 max. | Fast drying, appearance, adhesion |
| | ACRYDIC AU-7502 | Xylene | 59.0 - 61.0 | Z ₃ - Z ₄ | 55 - 65 | 1.7 - 2.0 | 5 max.* | 1 max. | Fast drying, appearance, cost effective |
| | Idecril 1069 | Xylene | 58.0 - 62.0 | Z ₁ - Z ₂ | 70 - 75 | 2.1 - 2.3* | 8 max. | 1 max. | Fast drying |
| | Idecril 2573 | Xylene | 68.0 - 72.0 | Z ₃ - Z ₄ | 68 - 72 | 2.1 - 2.2* | 8 max. | 1 max. | Durability |

*Calculated from TDS solution value

Basecoat

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|--------------|----------------------|---|-------------------|--------------------|--------------------------|-------------------|---------------------------------|----------------|--|
| 1K Acrylic | ACRYDIC A-134-IM | Toluene, n-Butyl Acetate | 49.0 - 51.0 | Z - Z ₃ | — | — | 2 - 10* | 1 max. | High gloss, gasoline resistance, weathering resistance |
| 1K Polyester | BECKOLITE AL-4298-60 | Xylene, Propylene Glycol Methyl Ether, Solvesso-100 | 59.0 - 61.0 | V - X | 75 - 85* | 2.3 - 2.6* | 3 - 10* | 2 max. | Compatibility with CAB, adhesion, flexibility, aluminium orientation |
| 2K Acrylic | ACRYDIC AC-333 | Toluene, n-Butyl Acetate | 49.0 - 51.0 | W - Y | 66 - 78 | 2.0 - 2.4 | 4 - 8* | 1 max. | Adhesion, hardness, fast drying, solvent resistance |
| | Idecril 3324 | n-Butyl Acetate | 48.0 - 52.0 | 20 - 40 (Pois) | 45 - 48 | 1.4 - 1.5* | 6 max. | 1 max. | Compatibility with CAB |

*Calculated from TDS solution value

Primer

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Solid EEW (g/eg) | Color, Gardner | Features |
|----------------|-----------------|---------|-------------------|--------------------|--------------------------|-------------------|---------------------------------|------------------|----------------|--|
| 2K Epoxy Ester | Idepoxyester 75 | Xylene | 73.0 - 77.0 | 46 - 148 (Pois) | 80 - 90 | 2.4 - 2.7* | 5 max. | 625 - 775 | 10 max. | Adhesion on unprepared metallic surfaces |

*Calculated from TDS solution value

Putty

| Type | Product name | Viscosity, Gardner | Gel time, min. at 25°C | Gel time, Method at 25°C* | Features |
|------|--------------------|--------------------|------------------------|---------------------------|--|
| UPR | SUNDHOMA DE-460 | M - P | 6.30 - 7.30 | PGT-SF | Hardness, sandability, flexibility, adhesion |
| | SUNDHOMA CN-225-SF | M - P | 12.00 - 18.00 | PGT-SF | Fast drying, sandability, workability |
| | SUNDHOMA CN-2420 | Q - S | 10.00 - 16.00 | PGT-SF | Adhesion on gavanized steel (GI) and aluminium, thermal resistance |

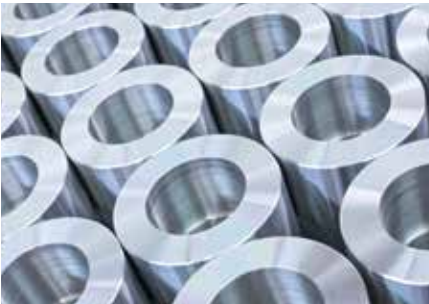
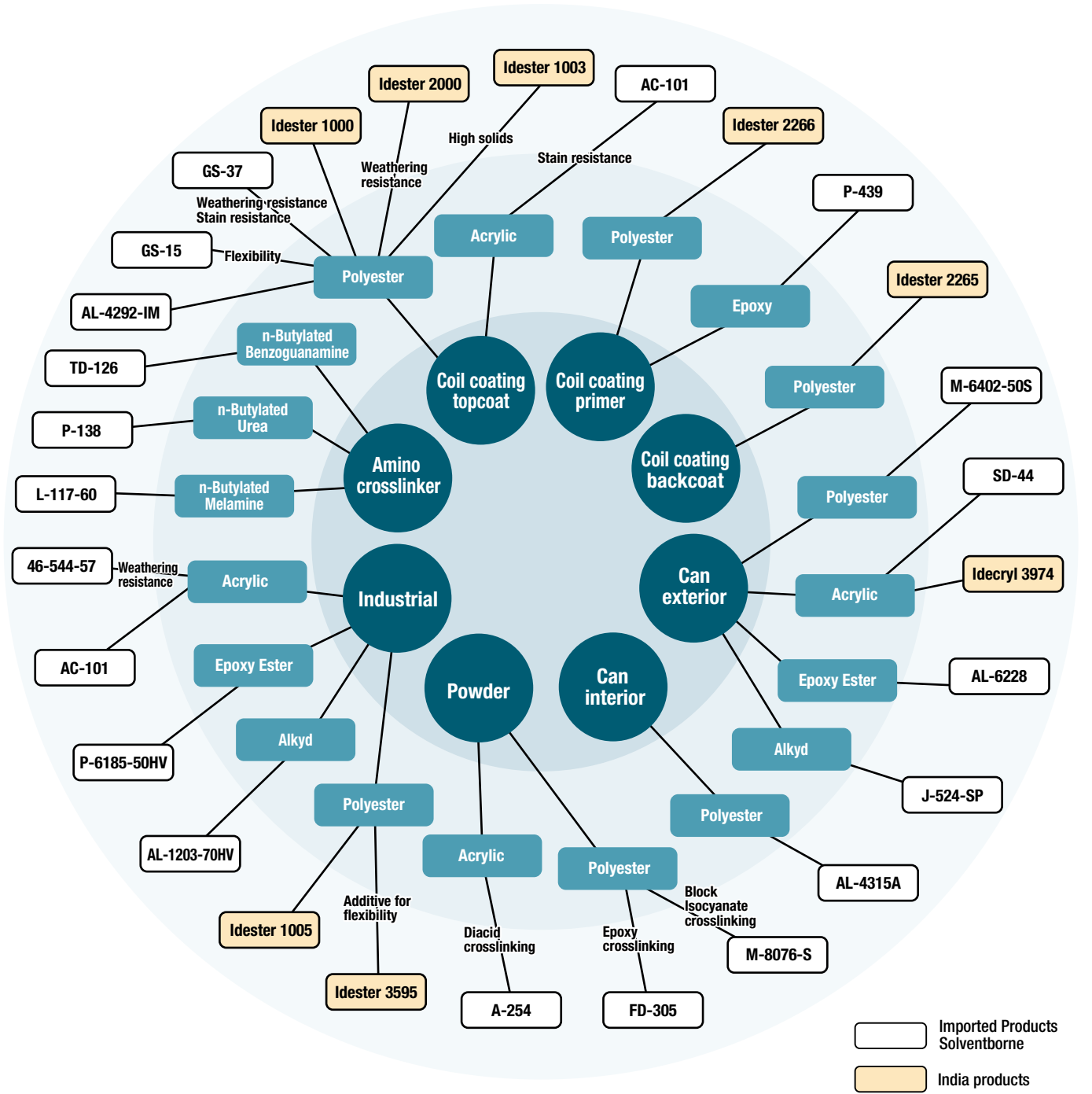
*Gel time method PGT-SF : Resin/6% Co-Napt/55% MEKPO=50gr/0.2gr/2.0gr

Solid color

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|--------------|-----------------|--------------------------|-------------------|---------------------------------|--------------------------|-------------------|---------------------------------|------------|-------------|----------------|--|
| 2K Acrylic | ACRYDIC AC-303 | Xylene, n-Butyl Acetate | 69.0 - 71.0 | Z ₄ - Z ₆ | 80 - 88* | 2.4 - 2.7* | 11 - 16* | — | — | 1 max. | Adhesion, recoatability, pigment dispersibility, weathering resistance |
| | ACRYDIC AC-333 | Toluene, n-Butyl Acetate | 49.0 - 51.0 | W - Y | 66 - 78 | 2.0 - 2.4 | 4 - 8* | — | — | 1 max. | Adhesion, hardness, fast drying, solvent resistance |
| | ACRYDIC A-801-P | Toluene, n-Butyl Acetate | 49.0 - 51.0 | R - U | 94 - 106 | 2.8 - 3.2 | 2 - 8* | — | — | 1 max. | High gloss, adhesion, pigment dispersibility, weathering resistance |
| 2K Polyester | Idester 1005 | Xylene | 68.0 - 72.0 | 20 - 30 (Pois) | 95 - 105 | 2.9 - 3.2* | 10 max. | — | — | 2 max. | High gloss, compatibility with CAB |
| Alkyd | Idekyd 1024 | Xylene | 58.5 - 61.5 | Z ₁ - Z ₃ | 55 - 75 | 1.7 - 2.3* | 10 max. | 40 | Soybean | 6 max. | Fast drying, high gloss |

*Calculated from TDS solution value

Product Tree of Themosetting Resins for Metal Coatings



Product Characteristics of Themosetting Resins for Metal Coatings

Coil coating topcoat

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------|----------------------|--------------------------------------|-------------------|---|--------------------------|---------------------------------|----------------|---|
| Polyester | BECKOLITE AL-4292-IM | Xylene, Butyl Cellosolve | 65.0 - 68.0 | X - Y | 80 - 100 | 6 - 12* | 2 max. | High solids, flexibility, stain resistance, hardness |
| | BECKOLITE GS-15 | Solvesso-100, Methoxy Propyl Acetate | 65.0 - 67.0 | Z ₂ - Z ₆ | 10 - 30 | 3 - 7* | 4 max. | High solids, flexibility and hardness balance, high gloss, pigment dispersibility, Tin free |
| | BECKOLITE GS-37 | Solvesso-100, Methoxy Propyl Acetate | 66.0 - 68.0 | Z ₃ - (Z ₄ - Z ₅) | 70 - 90 | 8 - 12* | 3 max. | High solids, weathering resistance stain resistance, hardness, corrosion resistance, Tin free |
| | Idester 1000 | Solvesso-150, Butyl Cellosolve | 58.0 - 62.0 | X - Z | 45 - 55 | 17 max.* | 1 max. | General purpose |
| | Idester 2000 | Solvesso-150, Butyl Cellosolve | 58.0 - 62.0 | Y - Z | 45 - 55 | 10 max.* | 2 max. | Hydrolytic stability, weathering resistance |
| | Idester 1003 | Solvesso-150, Butyl Cellosolve | 66.0 - 68.0 | X - Z | 45 - 55 | 10 max.* | 1 max. | Weathering resistance |
| Acrylic | ACRYDIC AC-101 | Solvesso-100, n-Butanol | 67.0 - 69.0 | (Z ₅ - Z ₆) - Z ₆ | 87* | 8 - 12* | 1 max. | High solids, stain resistance, adhesion, weathering resistance, metallic orientation |

* Calculated from TDS solution value

Coil coating primer

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------|---------------|-------------------------------------|-------------------|---------------------------------|--------------------------|---------------------------------|----------------|--------------------------|
| Polyester | Idester 2266 | Solvesso-150, Butyl Cellosolve | 58.0 - 62.0 | Z ₁ - Z ₂ | 15 - 25 | 5 max.* | 1 max. | Water boiling resistance |
| Epoxy | EPICLON P-439 | Xylene, Butyl Cellosolve, n-Butanol | 38.0 - 42.0 | U - Y | — | — | 3 max. | Adhesion, hardness |

* Calculated from TDS solution value

Coil coating backcoat

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------|--------------|--------------------------------|-------------------|--------------------|--------------------------|---------------------------------|----------------|---------------|
| Polyester | Idester 2265 | Solvesso-150, Butyl Cellosolve | 63.0 - 67.0 | X - Z | 120 - 140 | 10 max.* | 1 max. | Foam adhesion |

* Calculated from TDS solution value

Can exterior

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|-------------|----------------------|---|-------------------|---------------------------------|---------------------------------|------------|--------------|----------------|---|
| Polyester | BECKOLITE M-6402-50S | Solvesso-150, Butyl Cellosolve, Isopropyl Glycol, Xylene, n-Butanol | 49.0 - 51.0 | U - (V - W) | 5 - 10* | — | — | 1 max. | Flexibility, excellent adhesion, high gloss, color retention. |
| Acrylic | ACRYDIC SD-44 | Solvesso-150 | 49.0 - 51.0 | V - Y | 4 - 10* | — | — | 3 max. | Adhesion and inter-adhesion between printing ink, flexibility, high gloss, weathering resistance. |
| | Idecryl 3974 | Butyl Cellosolve | 38.0 - 42.0 | W - Y | 80 - 90 | — | — | 1 max. | Hardness, high gloss |
| Epoxy Ester | ALUKIDIR AL-6228 | Solvesso-150, Xylene | 59.0 - 61.0 | Z ₂ - Z ₅ | 7 max. | — | H-Coconut FA | 3 max. | Adhesion, flexibility, high gloss, color retention. |
| Alkyd | ALUKIDIR J-524-SP | Xylene | 59.0 - 61.0 | Z ₂ - Z ₄ | 5 - 10* | 32 | Coconut | 2 max. | Non yellowing, high gloss, hardness, weathering resistance |

* Calculated from TDS solution value

Can interior

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------|--------------------|-----------------------------|-------------------|--------------------|--------------------------|---------------------------------|----------------|-----------------------|
| Polyester | BECKOLITE AL-4315A | Solvesso-150, Dibasic ester | 39.0 - 41.0 | Z - Z ₄ | 11 | 5 max.* | 5 max. | Flexibility, adhesion |

* Calculated from TDS solution value

Product Characteristics of Thermosetting Resins for Metal Coatings

Powder

| Type | Product name | Function value | Unit | Softening point | Methods | Features |
|-----------|------------------|----------------|---------------------|-----------------|--------------------|---|
| Polyester | FINEDIC M-8076-S | 38.0 - 48.0 | OHV, mgKOH/g | 109 - 113 | Ring & Ball,°C | Hydroxyl functional polyester, flow ability, flexibility, mechanical properties |
| | FINEDIC FD-305 | 30.0 - 36.0 | Acid value, mgKOH/g | 100 - 112 | Ring & Ball,°C | Carboxy functional polyester, flow ability, impact resistance, corrosion resistance, storage stability as paint |
| Acrylic | FINEDIC A-254 | 51.5 - 55.5 | EEW, g/eq | 46 - 54 | Melt Index at 25°C | Epoxy functional acrylic resin, high gloss, corrosion resistance |

Industrial

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|-------------|-----------------------|-------------------------|-------------------|---|--------------------------|---------------------------------|------------|----------------|----------------|--|
| Polyester | Idester 3595 | — | 98.0 - 100.0 | 350 - 450 (Poises) | 34 - 40 | 1 max. | — | — | 1 max. | Excellent plasticizer |
| | Idester 1005 | Xylene | 68.0 - 72.0 | 20 - 30 (Poises) | 95 - 105 | 10 max. | — | — | 2 max. | High gloss, compatibility with CAB |
| Alkyd | ALUKIDIR AL-1203-70HV | Xylene, White spirit | 69.0 - 71.0 | >Z ₈ | — | 4 - 10* | 39 | Soybean | 6 max. | Adhesion, hardness and flexibility, high viscosity |
| Epoxy Ester | ALUKIDIR P-6185-50HV | Xylene | 49.0 - 51.0 | T - W | — | 6max.* | — | Soybean oil FA | 4 max. | Adhesion, flexibility, chemical resistance, corrosion resistance |
| Acrylic | ACRYDIC AC-101 | Solvesso-100, n-Butanol | 67.0 - 69.0 | (Z ₅ - Z ₈) - Z ₆ | 87* | 8 - 12* | — | — | 1 max. | High solids, stain resistance, adhesion, weathering resistance, metallic orientation |
| | ACRYDIC 46-544-57 | Xylene, n-Butanol | 56.0 - 58.0 | Y - Z ₁ | 20 | 3 - 9* | — | — | 1 max. | Adhesion on various kinds of metal, corrosion resistance |

* Calculated from TDS solution value

Amino crosslinker

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|----------------------------|-----------------|--|-------------------|--------------------|---------------------------------|----------------|---|
| n-Butylated Melamine | AMIDIR L-117-60 | n-Butanol, Xylene, Methanol | 58.0 - 62.0 | F - J | 2 max.* | 1 max. | Compatibility with acrylic resins |
| n-Butylated Urea | AMIDIR P-138 | Xylene, n-Butanol, Methanol, Ethanol | 58.0 - 62.0 | R - T | 1 - 7* | 1 max. | Compatibility with epoxy resins, low temperature curing |
| n-Butylated Benzoguanamine | AMIDIR TD-126 | Xylene, Methanol, n-Butanol, iso-Butanol | 58.0 - 62.0 | A ₁ - C | 2 max.* | 1 max. | Flexibility, high gloss |

* Calculated from TDS solution value



Product Characteristics for Protective Coatings

Heavy duty & Construction materials

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|--------------------------|----------------------|--|-------------------|---|------------------------------------|-------------------|---------------------------------|----------------|--|
| 1K Epoxy | EPICLON H-305-45T | Toluene, Xylene, n-Butanol, Methoxy Propyl Acetate | 44.0 - 46.0 | Z ₁ - Z ₄ | — | — | — | 3 max. | Adhesion, pigment dispersibility, corrosion resistance |
| 2K Epoxy | EPICLON 850 | — | >99.0 | 11000 - 15000 (mPa.s) | 184 - 194 (EEW, g/eq solid resin) | — | — | 2 max. | Mechanical property, chemical resistance, adhesion, thermal resistance |
| | LUCKAMIDE 12-242 | Toluene | 69.0 - 71.0 | X - Z ₁ | 160 - 200 (AHEW, g/eq solid resin) | — | — | 9 max. | Polyamide hardener, adhesion, flexibility, fast drying, corrosion resistance |
| Organic-Inorganic hybrid | CERANATE SSA-500 | Butyl Acetate, Propylene Glycol Monomethyl Acetate | 54.0 - 56.0 | 200 - 500 (mPa.s) | 65 - 75 | 2.0 - 2.3 | 2.0 - 6.0 | — | Weathering resistance, adhesion to glass, transparency, flexibility |
| Polyester | Idester 2749 | — | >99.0 | 60 - 70 (Poises) | 140 - 160 | 4.7 - 5.0 | 5 max. | 2 max. | Fast drying, high gloss |
| Solvenborne 2K Acrylic | ACRYDIC A-801-P | Toluene, n-Butyl Acetate | 49.0 - 51.0 | R - U | 94 - 106 | 2.8 - 3.2 | 2 - 8* | 1 max. | Pigment dispersibility, mechanical resistance chemical resistance |
| | ACRYDIC AC-3675 | n-Butyl Acetate | 79.0 - 81.0 | Z ₆ - Z ₈ | 88 - 100* | 2.7 - 3.1 | 12 - 17* | 1 max. | Super high solid, appearance, corrosion resistance, weathering resistance |
| | ACRYDIC AC-3665 | Xylene, n-Butyl Acetate | 79.0 - 81.0 | Z ₃ - Z ₆ | 63 - 75* | 1.9 - 2.3 | 5 - 10* | 1 max. | Super high solids, appearance, corrosion resistance |
| | Idecryl 8080BA | n-Butyl Acetate | 78.0 - 82.0 | Z ₃ - Z ₄ | 70 | 2.1 | 10 max. | 1 max. | High solid, appearance |
| | ACRYDIC AC 3263-HP | n-Butyl Acetate | 69.0 - 71.0 | Z - Z ₃ | 124 - 133 | 3.8 - 4.0 | 4 - 10* | 1 max. | High solids, levelling, chemical resistance, weathering resistance |
| | Idecryl 1063 | Xylene | 68.0 - 72.0 | 80 - 100 (Seconds, Ford cup #4, 50% solution in xylene, 30°C) | 70 - 73 | 2.1 - 2.2* | 8 max. | 1 max. | Intercoat adhesion |
| | Idecryl 8067 | Xylene, Methoxy Propyl Acetate | 58.0 - 62.0 | Z ₁ - Z ₃ | 90 - 100 | 2.7 - 3.0* | 5 max. | 1 max. | Corrosion resistance |
| | Idecryl 6988 | Cellosolve Acetate, Xylene | 58.0 - 62.0 | Z ₁ - Z ₃ | 75 - 85 | 2.3 - 2.8* | 5 max. | 1 max. | Fast drying |
| Airdry Alkyd | Idekyd 1030 | Xylene | 53.0 - 57.0 | 40 - 60 (Poises) | 90 - 110 | 2.7 - 3.3* | 20 max. | 6 max. | Oil length=28, type of oil=Soybean, fast drying, high gloss |
| Airdry Epoxy Ester | ALUKIDIR P-6185-50HV | Xylene | 49.0 - 51.0 | T - W | — | — | 6 max.* | 4 max. | Adhesion, flexibility, chemical resistance, corrosion resistance |

* Calculated from TDS solution value

DTM

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|--------------------|--------------------|-------------------|-------------------|---------------------------------|--------------------------|-------------------|---------------------------------|----------------|---|
| Airdry Epoxy Ester | Idepoxyster 60 | Xylene | 58.0 - 62.0 | 15 - 35 (Poises(30°C)) | 120 - 130 | 3.6 - 3.9 | 5 max. | 8 max. | Corrosion resistance |
| 1K Acrylic | ACRYDIC LA-9501-60 | Xylene, n-Butanol | 59.0 - 61.0 | Z ₃ - Z ₅ | 83 - 91 | 2.5 - 2.8* | 5 - 10 | 1 max. | Adhesion, flexibility, high gloss, chemical resistance |
| 2K Acrylic | ACRYDIC AU-7500 | Xylene | 69.0 - 71.0 | Z ₄ - Z ₈ | 55 - 65 | 1.7 - 2.0 | 5 max.* | 1 max. | Adhesion on steel and galvanized steel (GI), high gloss |
| | Idecryl 1063D | Xylene | 63.0 - 67.0 | 150 - 200 (Poises) | 75 - 85 | 2.3 - 2.6* | 12 max. | 1 max. | Adhesion on aluminium and galvanized steel (GI) |
| | Idecryl 8062 | Xylene | 53.0 - 57.0 | 20 - 30 (Poises) | 48.0 - 50.0 | 1.4 - 1.5* | 5 max. | 1 max. | Fast drying, weathering resistance |

* Calculated from TDS solution value

Aerosol

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|--------------|--------------|---------|-------------------|--------------------|---------------------------------|------------|-------------|----------------|-------------------------|
| Airdry Alkyd | Idekyd 1325 | Xylene | 58.0 - 62.0 | 12 - 18 (Poises) | 15 max. | 18 | Soybean/DCO | 6 max. | Fast drying, high gloss |

Product Characteristics for Protective Coatings

Heat resistance

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-----------------------------|---------------------|--------------------------------|-------------------|--------------------|---------------------------------|----------------|--|
| Silicone modified Polyester | Idestersilicon 2849 | Methoxy Propyl Acetate | 58.0 - 62.0 | 17 - 22 (Poises) | 14 max. | 1 max. | Thermal resistance (up to 300°C with properly formulated coating), non yellowing |
| Silicone modified Epoxy | Idepoxysilicon 3050 | Methoxy Propyl Acetate, Xylene | 50.0 - 54.0 | X - Z | 8 max. | 2 max. | Thermal resistance (up to 600°C with properly formulated coating) |

Maintenance

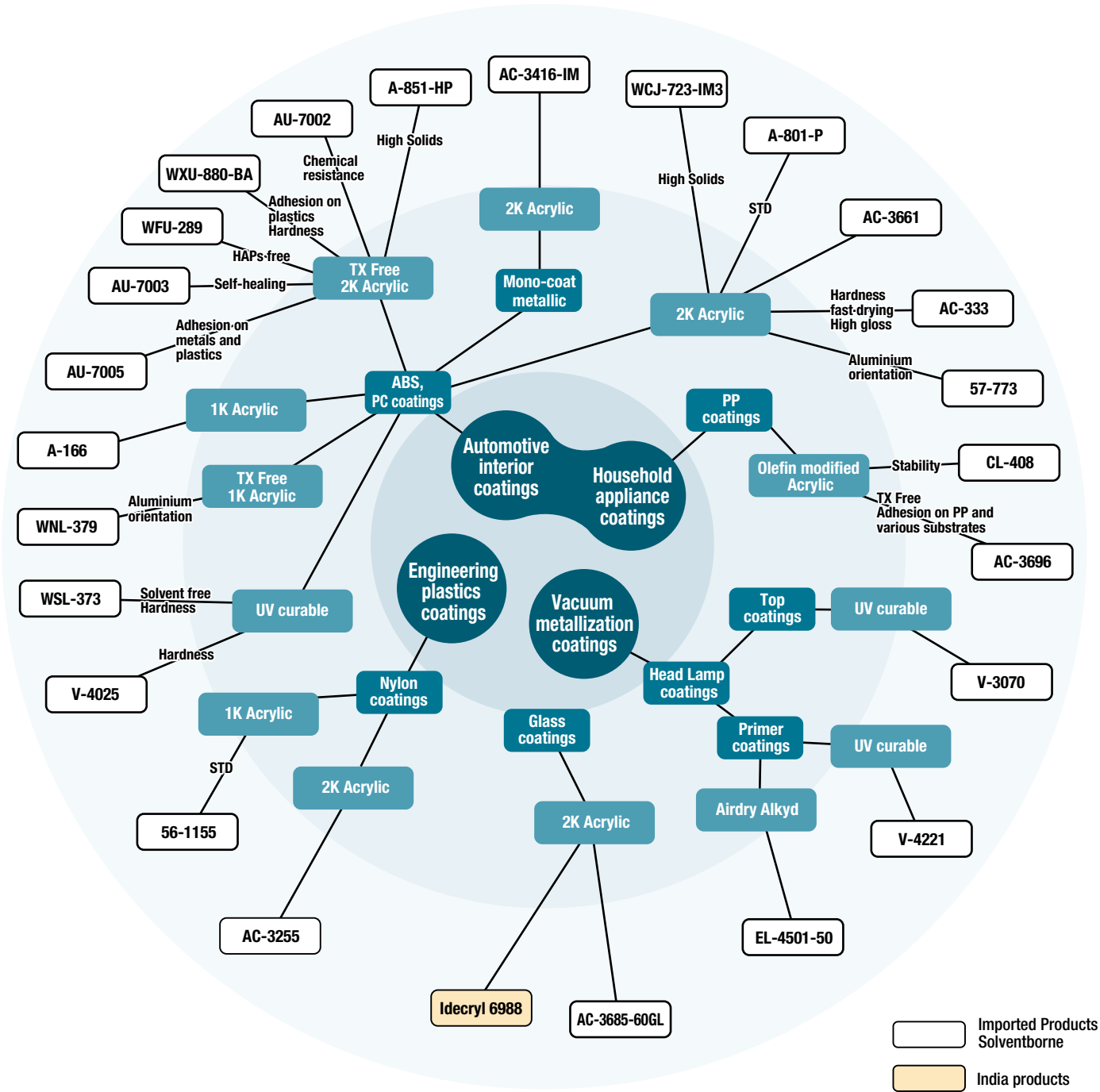
| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | EEW, g/eq solid resin | AHEW g/eq solid resin | Color, Gardner | Features |
|----------------|----------------|-------------------|-------------------|-----------------------|--------------------------|-------------------|---------------------------------|-----------------------|-----------------------|----------------|--|
| 2K Epoxy Ester | Idepoxyster 75 | Xylene | 73.0 - 77.0 | 46 - 148 (Poises) | 80 - 90 | 2.4 - 2.7* | 5 max. | 625 - 775 | — | 10 max. | Adhesion on unprepared metallic surfaces |
| | Idemide 200 | Xylene, n-Butanol | 50.0 - 54.0 | 6 - 12 (Poises, 30°C) | — | — | — | — | 180 - 220 | 10 max. | Polyamide hardener, no blushing in humid climate |

* Calculated from TDS solution value

Heavy duty & Construction materials (Waterborne)

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | %NCO, solution | pH | Features |
|--------------------------|----------------------|--|-------------------|---------------------|-----------------------------------|-------------------|----------------|------------|---|
| 2K Epoxy | EPICLON EXA-8420-60W | Water | 59.0 - 61.0 | 50-2000 (mPa.s) | 480 - 530 (EEW, g/eq solid resin) | — | — | — | Corrosion resistance, pigment dispersibility, VOC free |
| | LUCKAMIDE WN-720Z | Water, Propylene Glycol Monomethyl ether | 48.0 - 52.0 | Z - Z ₄ | 177 (AHEW, g/eq solid resin) | — | — | — | Polyamide hardener, corrosion resistance |
| Organic-Inorganic hybrid | CERANATE WSA-1070 | Diethylene Glycol Monobutyl Ether, Water | 39.0 - 41.0 | 20 - 500 (mPa.s) | — | — | — | 7.5 - 8.5 | Weathering resistance, stain resistance, adhesion to glass, untreated aluminium plates and untreated PET substrates |
| | WATERSOL WSA-950 | — | >99.0 | — | — | — | — | — | Hardener for CERANATE |
| 2K Acrylic | BURNOCK WD-551 | Diethylene Glycol Dimethyl Ether, Water | 43.0 - 45.0 | 100 - 3000 (mPa.s) | 100 | 3.0 | — | 7.5 - 8.5 | High gloss, hydrolytic stability, chemical resistance |
| | BURNOCK DNW-5500 | Propylene Glycol Monomethyl Ether Acetate | 79.0 - 81.0 | G - M | — | — | 13.0 - 14.0 | — | Polyisocyanate, water dispersibility, stability in water |
| 1K Epoxy | EPICLON H-502-42W | Water, Butyl Cellosolve, Isopropyl Alcohol, Dimethyl Ethanolamine | 37.0 - 41.0 | 500 - 10000 (mPa.s) | — | — | — | 8.0 - 11.0 | Corrosion resistance, pigment dispersibility, storage stability |
| Airdry Epoxy Ester | WATERSOL EFD-5580 | Water, Propylene Glycol Monobutyl Ether, Propylene Glycol Monopropyl Ether | 39.0 - 41.0 | 50 - 3000 (mPa.s) | — | — | — | 8.0 - 9.0 | Corrosion resistance, weathering resistance, compatibility and dispersibility with anti-corrosion pigment |

Product Tree for Plastic & Glass Coatings



Product Characteristics for Plastic & Glass Coatings

Automotive interior & Household appliance coatings - ABS, PC coatings

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|--------------------|---------------------|---|-------------------|---------------------------------|--------------------------|-------------------|---------------------------------|----------------|---|
| UV Curable | LUXYDIR V-4025 | n-Butyl Acetate | 78.0 - 82.0 | 0 - U | — | — | — | 1 max. | Pencil hardness 6H (on glass), high gloss, abrasion resistance, stain resistance, adhesion to several substrates such as ABS, PC |
| | LUXYDIR WSL-373 | — | >99.0 | Z ₅ - Z ₆ | — | — | — | 1 max. | Pencil hardness 6H-7H (on glass), high gloss, abrasion resistance, stain resistance, adhesion to several substrates such as ABS, PC |
| TX free 1K Acrylic | ACRYDIC WNL-379 | MIBK, iso-Butanol, Ethyl Acetate | 39.0 - 41.0 | P - W | 148 - 173* | 4.5 - 5.2* | 1 - 5* | 1 max. | Chemical resistance, appearance on metallic coatings, adhesion to plastics such as ABS, PC and PC/ABS, aromatic solvent free |
| 1K Acrylic | ACRYDIC A-166 | Toluene, n-Butanol | 44.0 - 46.0 | W - Z ₁ | — | — | 3 max.* | 1 max. | Adhesion on plastic substrates, alcohol resistance, compatibility with CAB, vinyl resin and various kinds of plasticizers |
| TX free 2K Acrylic | ACRYDIC AU-7005 | n-Butyl Acetate, Propylene Glycol Methyl Ether Acetate, MEK | 54.0 - 56.0 | V - Z ₁ | 51 - 70* | 1.8 - 2.1* | 7 - 13* | 1 max. | Chemical resistance, excellent adhesion on plastics and metal plating, aromatic solvent free |
| | ACRYDIC AU-7003 | Propylene Glycol Methyl Ether Acetate | 59.0 - 61.0 | G - L | 138 - 148* | 4.2 - 4.5* | 5 - 10* | 1 max. | Chemical resistance, excellent adhesion on plastics and metal plating, aromatic solvent free |
| | ACRYDIC WFU-289 | MIBK, iso-Butanol, Ethyl Acetate | 49.0 - 51.0 | Z ₁ - Z ₅ | 34 - 46* | 1.0 - 1.4* | 4 - 8* | 1 max. | HAPs & aromatic solvent free, adhesion on plastics (HAPs: Hazardous Air Pollutants) |
| | ACRYDIC WXU-880-BA | Butyl Acetate, MIBK | 49.0 - 51.0 | Z ₁ - Z ₅ | 14 - 26* | 0.4 - 0.8* | 2 - 6* | 1 max. | Adhesion on various plastic substrates, aluminium orientation |
| | ACRYDIC AU-7002 | n-Butyl Acetate | 54.0 - 56.0 | Z ₁ - Z ₄ | 108 - 126* | 3.3 - 3.8* | 17 - 21* | 1 max. | Chemical resistance, air freshener & DEET resistance, adhesion on plastics, aromatic solvent free |
| | ACRYDIC A-851-HP | n-Butyl Acetate | 69.0 - 71.0 | X - Z ₁ | 100 - 114* | 3.0 - 3.5* | 1 - 6* | 1 max. | High solids, fast drying, weathering resistance |
| 2K Acrylic | ACRYDIC AC-3416-IM | Xylene, Toluene, n-Butyl Acetate, Isobutyl Acetate | 57.5 - 59.5 | W - Z ₁ | 104 - 115* | 3.2 - 3.5* | 10 - 16* | 1 max. | Fast drying, hardness, high gloss, adhesion, gasoline resistance |
| | ACRYDIC WCJ-723-IM3 | Xylene, n-Butyl Acetate | 69.0 - 71.0 | X - Z ₁ | 161 - 170* | 4.9 - 5.2* | 7 - 11* | 1 max. | Leveling, high gloss, adhesion, flexibility, physical resistance, mar resistance, recoatability, chemical resistance |
| | ACRYDIC A-801-P | Toluene, n-Butyl Acetate | 49.0 - 51.0 | R - U | 94 - 106 | 2.8 - 3.2 | 2 - 8* | 1 max. | Pigment dispersibility, adhesion |
| | ACRYDIC AC-3661 | Xylene | 59.0 - 61.0 | W - Z | 53 - 67 | 1.6 - 2.0 | 5 max.* | 1 max. | Fast drying, high gloss, adhesion |
| | ACRYDIC AC-333 | Toluene, n-Butyl Acetate | 49.0 - 51.0 | W - Y | 66 - 78 | 2.0 - 2.4 | 4 - 8* | 1 max. | Leveling, high gloss, adhesion, flexibility, physical resistance, mar resistance, recoatability, chemical resistance |
| | ACRYDIC 57-773 | Xylene, n-Butyl Acetate, Methoxyl propyl, Acetate | 44.0 - 46.0 | Y - Z ₃ | 29 - 38* | 0.9 - 1.1* | 11 - 18* | 1 max. | Adhesion on plastics and metals, pigment dispersibility, alcohol resistance, chemical resistance, hardness |

* Calculated from TDS solution value

Automotive interior & Household appliance coatings - PP coatings

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|-------------------------|-----------------|--|-------------------|---------------------------------|--------------------------|-------------------|---------------------------------|----------------|---|
| Olefin modified Acrylic | ACRYDIC CL-408 | Toluene, Solvesso-100, n-Butyl Acetate | 44.0 - 46.0 | Z ₂ - Z ₄ | 29 - 38 | 0.9 - 1.1 | 5 max.* | 2 max. | Adhesion on plastics especially PP, physical resistance |
| | ACRYDIC AC-3696 | n-Butyl Acetate | 57.0 - 59.0 | Z ₃ - Z ₆ | 59 - 70 | 1.8 - 2.1 | 6 max.* | — | Adhesion on plastics especially PP as 1K or 2K systems, TX free |

* Calculated from TDS solution value

Vacuum metallization coatings

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|--------------|---------------------|--------------------------------------|-------------------|----------------------------|---------------------------------|------------|------------------|----------------|-------------------------------|
| UV curable | LUXYDIR V-3070 | n-Butyl Acetate | 48.0 - 52.0 | D - H | — | — | — | — | Semi-hard, adhesion on metals |
| | LUXYDIR V-4221 | — | >99.0 | U - X (70% n-ButylAcetate) | — | — | — | 1 max. | Elastic stretch, solvent free |
| Airdry Alkyd | ALUKIDIR EL-4501-50 | Xylene, Mineral spirit, Solvesso-100 | 49.0 - 51.0 | W - Y | 7 max. | 45 | Soybean, Linseed | 5 max. | Fast drying |

Glass coatings

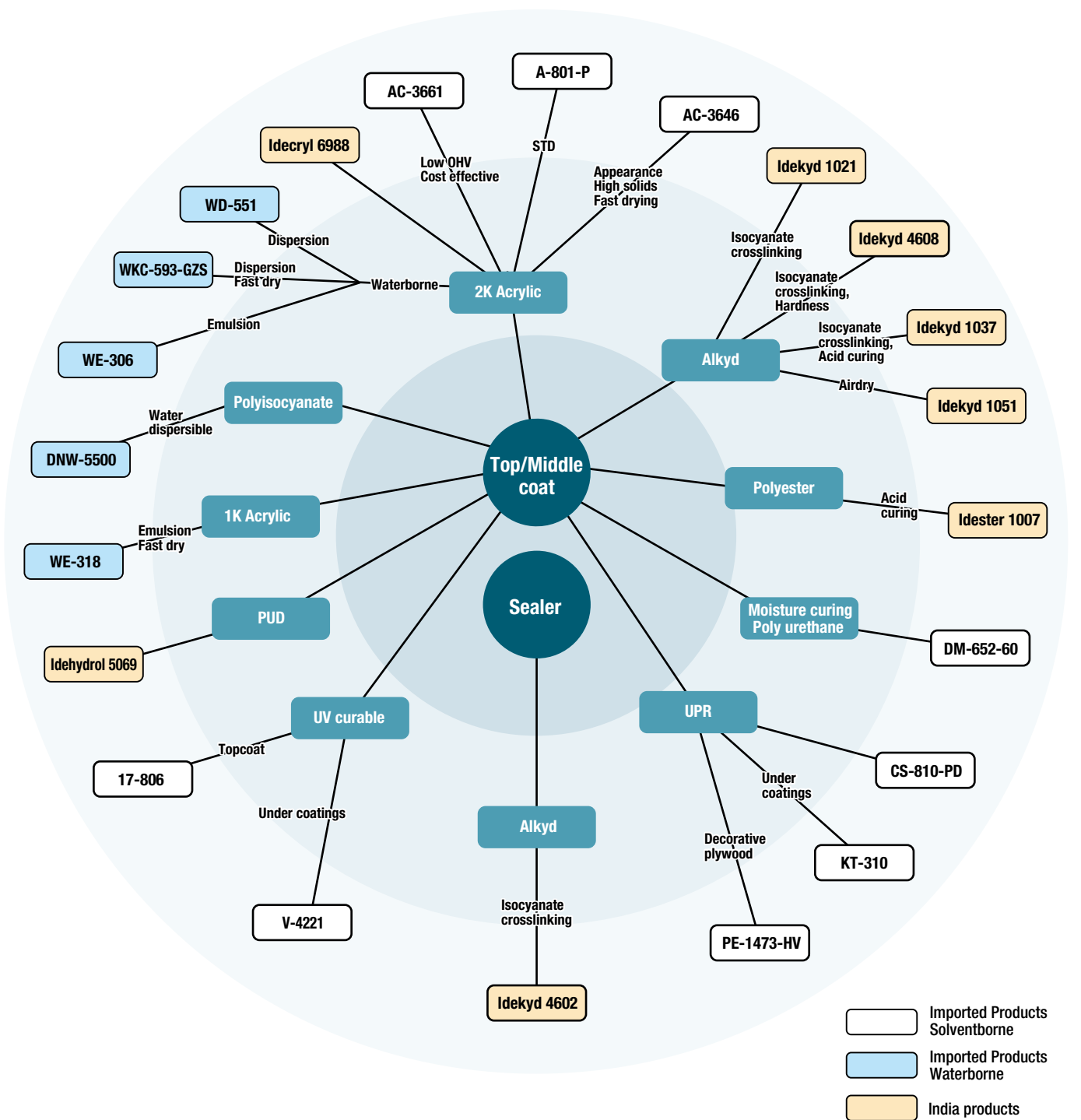
| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|------------|----------------------|----------------------------------|-------------------|---------------------------------|--------------------------|-------------------|---------------------------------|----------------|---|
| 2K Acrylic | ACRYDIC AC-3685-60GL | Xylene, n-Butyl Acetate, Toluene | 59.0 - 61.0 | Z ₅ - Z ₇ | 40 | 1.2 | 3 - 9* | 1 max. | Adhesion on ABS and glass plates, hardness, chemical resistance, pot life |
| | Idecryl 6988 | Cellosive Acetate, Xylene | 58.0 - 62.0 | Z ₁ - Z ₃ | 75 - 85 | 2.3 - 2.8* | 5 max. | 1 max. | Fast drying, adhesion on metals and plastics |

* Calculated from TDS solution value

Engineering plastics coatings

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | Features |
|------------|-----------------|-------------------------------------|-------------------|--------------------|--------------------------|-------------------|---------------------------------|----------------|--|
| 2K Acrylic | ACRYDIC AC-3255 | Xylene, n-Butyl Acetate, Toluene | 49.0 - 51.0 | S - U | 28 - 40 | 0.9 - 1.2 | 6 max. | 1 max. | Fast drying, high gloss, adhesion on plastics |
| 1K Acrylic | ACRYDIC 56-1155 | Toluene, n-Butanol, n-Butyl Acetate | 44.0 - 46.0 | Y - Z ₂ | — | — | 2 max. | 1 max. | Fast drying, gasoline and alcohol resistance, hardness, adhesion on plastics, compatibility with nitrocellulose (NC), vinyl (especially VAGH) and various plasticizers |

Product Tree for Wood Coatings



Product Characteristics for Wood Coatings

Top / Middle coat

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Color, Gardner | pH | Features |
|-------------------------------|---------------------|---|-------------------|--|--------------------------|------------------------------|---------------------------------|----------------|-----------|--|
| UV Curable | LUXYDIR V-4221 | — | >99.0 | U - X (70% n-Butyl Acetate) | — | — | — | 1 max | — | Elastic stretch, solvent free |
| | LUXYDIR 17-806 | n-Butyl Acetate | 79.0 - 81.0 | W - Z | — | — | — | — | — | Hardness |
| PUD | Idehydrol 5069 | Water, NMP | 35.0 - 37.0 | 20 - 40 (Seconds, 30°C, Ford cup #4) | 35 - 45 | 1.1 - 1.4* | — | — | 7.0 - 8.0 | Hardness, high gloss, corrosion resistance |
| 1K Acrylic | BURNOCK WE-318 | Water | 44.0 - 46.0 | 100 - 2000 (mPa-s) | 20 | 0.6* | — | — | 8.0 - 9.5 | Adhesion to ABS, PC and PC/ABS, chemical resistance, hydrolytic resistance |
| Polyisocyanate | BURNOCK DNW-5500 | Propylene Glycol Monomethyl Ether Acetate | 79.0 - 81.0 | G - M | — | 13.0 - 14.0 (%NCO, solution) | — | — | — | Dispersability into water and waterborne resins, stability in water |
| 2K Acrylic | BURNOCK WE-306 | Water | 44.0 - 46.0 | 100 - 1000 (mPa-s) | 100 | 3.0* | 12 | — | 7.0 - 9.0 | High gloss, high OHV |
| | BURNOCK WKC-593-GZS | Diethylene Glycol Dimethyl Ether, Water | 45.0 - 47.0 | 100 - 3000 (mPa-s) | 35 | 1.1* | 19 | — | 7.7 - 8.7 | Fast drying, hydrolytic resistance, chemical resistance, sandability |
| | BURNOCK WD-551 | Diethylene Glycol Dimethyl Ether, Water | 43.0 - 45.0 | 100 - 3000 (mPa-s) | 100 | 3.0 | 19 | — | 7.5 - 9.5 | Appearance, pigment dispersability |
| | Idecryl 6988 | Cellosolve Acetate, Xylene | 58.0 - 62.0 | Z ₁ - Z ₃ | 75 - 85 | 2.3 - 2.8* | 5 max. | 1 max. | — | Fast drying |
| | ACRYDIC AC-3661 | Xylene | 59.0 - 61.0 | W - Z | 53 - 67 | 1.6 - 2.0 | 5 max.* | 1 max. | — | Fast drying, appearance, adhesion |
| | ACRYDIC A-801-P | Toluene, n-Butyl Acetate | 49.0 - 51.0 | R - U | 94 - 106 | 2.8 - 3.2 | 2 - 8* | 1 max. | — | High gloss, adhesion, pigment dispersibility, weathering resistance |
| Alkyd | ACRYDIC AC-3646 | n-Butyl Acetate | 69.0 - 71.0 | Z ₃ - Z ₆ | 90 - 100 | 2.7 - 3.0 | 5 max.* | 1 max. | — | Fast drying, high gloss, adhesion |
| | Idekyd 1021 | Xylene | 59.0 - 61.0 | Z ₁ - Z ₂ | 119 - 129 | 3.6 - 3.9* | 12 - 16 | 4 max. | — | Oil length=40, type of oil=Castor/Olive, non-yellowing, high gloss |
| | Idekyd 4608 | Xylene | 58.0 - 62.0 | 1500 - 3000 (mPa-s) | 160 - 170 | 4.8 - 5.2* | 9 max. | 5 max. | — | Oil length=48, type of oil=Castor, non-yellowing, high glosshigh gloss, hardness |
| | Idekyd 1037 | Xylene | 68.0 - 72.0 | 80 - 100 (Seconds, 30°C, Ford cup #4, 50% resin solution in Xylene) | 120 - 140 | — | 10 max. | 6 max. | — | Oil length=39, type of oil=Soybean, high gloss |
| | Idekyd 1051 | Mineral turpentine | 58.0 - 62.0 | 50 - 60 (Seconds, 30°C, Ford cup B-4, 50% resin solution Mineral turpentine) | 25 - 35 | 0.8 - 1.1 | 10 max. | 6 max. | — | Oil length=58, type of oil=Soybean, fast drying, high gloss |
| | Idester 1007 | Xylene | 68.0 - 72.0 | 50 - 70 (Seconds, 30°C, Ford cup #4, 50% resin solution in Xylene) | 120 - 140 | 3.6 - 4.2* | 10 max. | 2 max. | — | Non-yellowing, high gloss |
| Moisture curing Poly urethane | BURNOCK DM-652-60 | Xylene, Methoxy Propyl Acetate | 59.0 - 61.0 | S - W | — | 5.0 - 6.2 (%NCO, solution) | — | 2 max. | — | Fast drying, hardness, high gloss, abrasion resistance |

* Calculated from TDS solution value

| Type | Product name | Viscosity, Gardner | Gel time, min. at 25°C | Gel time method at 25°C* | Features |
|------|---------------------|--------------------|------------------------|--------------------------|---|
| UPR | SUNDHOMA CS-810-PD | N - Q | 20.00 - 30.00 | PGT | Wax type, sandability, fast drying, hardness, for top coating |
| | SUNDHOMA KT-310 | T - V | 17.00 - 23.00 | PGT | Non-wax type, sandability, fast drying, hardness, for under coating |
| | SUNDHOMA PE-1473-HV | 850 - 950 (mPa-s) | 5.30 - 7.30 | NPGT | Fast curing, handling, adhesion to decorative plywood |

*Gel time method PGT : Resin/6% Co-Napt/55% MEKPO=50gr/1.0gr/1.0gr
NPGT : Resin/6% Co-Napt/55% MEKPO=50gr/0.25gr/0.5gr

Sealer

| Type | Product name | Solvent | Solids content, % | Viscosity, Gardner | OHV, mgKOH/g solid resin | % OH, solid resin | Acid value, mgKOH/g solid resin | Oil length | Type of oil | Color, Gardner | Features |
|-------|--------------|---------|-------------------|--------------------|--------------------------|-------------------|---------------------------------|------------|--------------|----------------|---|
| Alkyd | Idekyd 4602 | Xylene | 48.0 - 52.0 | V - W | 150 - 170 | 4.5 - 5.2* | 25 max. | 25 | Castor/olive | 2 max. | Fast drying, sandability as primer and sealer |

* Calculated from TDS solution value

Characteristics of Solvents

| Classifi- cation | Name | Molecular formula | Molecular weight | Boiling point(℃) | S.P | Specific gravity | Flash point (TCC・℃) | Ignition point (℃) | Explosion limit (VOL %) |
|---------------------|---|--|---------------------|---------------------|------|---------------------|------------------------|--------------------------|-------------------------------|
| Hydrocarbons | Benzene | C ₆ H ₆ | 78 | 80.1 | 9.2 | 0.874/25℃ | －11.1 | 562.2 | 1.4～7.1 |
| | Toluene | C ₆ H ₅ CH ₃ | 92 | 110.6 | 8.9 | 0.867/25℃ | 4.4 | 552 | 1.27～7.0 |
| | Xylene | C ₆ H ₄ (CH ₃) ₂ | 106 | 136～141 | 8.8 | Approx. 0.87/25℃ | 23～27 | 463～528 | 1.0～7.0 |
| | Solvesso-100 | － | － | 155～181 | | 0.88/15℃ | Over 41 | Over 450 | 0.8～7.0 |
| | Solvesso-150 | － | － | 178～209 | | 0.900/15℃ | Over 62 | Over 450 | 0.6～7.0 |
| | SWASOL 1800 | － | － | 206 | | 0.93/(15/4℃) | 79 | 465 | |
| | ISOPA-E | － | － | 113～143 | | 0.72/15℃ | 7 | 395 | 0.9～6.2 |
| | ISOPA-G | － | － | 153～178 | | 0.75/15℃ | Over 40 | 365 | 0.7～5.6 |
| | LAWS (45℃ terpene) | － | － | 160～200 | | 0.798/15℃ | 46 | | 1.4～7.6 |
| | PEGASOL 3040 (55℃ terpene) | － | － | 150～200 | | 0.78/15℃ | 40～45 | 230 | 0.6～6.5 |
| Alcohols | Methanol | CH ₃ OH | 32 | 64.5 | 14.7 | 0.791/20℃ | 12 | 470 | 6.0～36.5 |
| | Ethanol | C ₂ H ₅ OH | 46 | 78.3 | 12.7 | 0.789/20℃ | 14 | 390 | 4.3～19.0 |
| | Isopropyl alcohol | (CH ₃) ₂ CHOH | 60 | 82.4 | 11.5 | 0.786/20℃ | 11.7 | 460 | 2.02～7.99 |
| | n-Butanol | C ₄ H ₉ OH | 74 | 117.7 | 11.4 | 0.810/20℃ | 35 | 340 | 1.45～11.25 |
| | iso-Butanol | (CH ₃) ₂ CHCH ₂ OH | 74 | 107.9 | 11.1 | 0.802/20℃ | 27.5 | 434 | 1.68～10.5 |
| | Diacetone alcohol | (CH ₃) ₂ C(OH)CH ₂ COCH ₃ | 116 | 169.2 | | 0.938/20℃ | 60 | 603 | 1.8～6.9 |
| | 3-Methoxy-1-butanol | CH ₃ CH(OCH ₃)CH ₂ CH ₂ OH | 104 | 161 | | 0.921/20℃ | 64.5 | 239 | 3.6～11.0 |
| | 3-Methyl-3-methoxy butanol | (CH ₃) ₂ C(OCH ₃)CH ₂ CH ₂ OH | 118 | 174 | 9.3 | 0.927/20℃ | 68 | 395 | |
| Ketones | Acetone | CH ₃ COCH ₃ | 158 | 56.1 | 10.0 | 0.785/25℃ | 17.8 | 561 | 2.55～7.80 |
| | Methyl ethyl ketone | CH ₃ COC ₂ H ₅ | 72 | 79.6 | 9.3 | 0.800/25℃ | 7.2 | 516 | 1.81～8.5 |
| | Methyl isobutyl ketone | (CH ₃) ₂ CHCH ₂ COCH ₃ | 100 | 115.9 | 8.4 | 0.796/25℃ | 15.6 | 465.5 | 1.35～11.60 |
| | Isophorone | C ₉ H ₁₄ O | 138 | 213 | | 0.92/20℃ | | 462 | 0.8～3.8 |
| | Cyclohexanone (anone) | (CH ₂) ₅ CO | 98 | 155.7 | 9.9 | 0.948/20℃ | 44 | 420 | 1.1～8.1 |
| Esters | Ethyl acetate | CH ₃ COOC ₂ H ₅ | 88 | 77.1 | 9.1 | 0.901/20℃ | 4 | 425 | 2.18～11.4 |
| | n-Butyl Acetate | CH ₃ COOC ₄ H ₉ | 116 | 126.1 | 8.5 | 0.881/20℃ | 27 | 421 | 1.4～8.0 |
| | Isobutyl acetate | CH ₃ COOCH ₂ CH(CH ₃) ₂ | 116 | 117.3 | 8.4 | 0.871/20℃ | 21 | 463 | 1.85～11.0 |
| | Ethoxyethyl propionate | CH ₃ CH ₂ OCH ₂ CH ₂ COOC ₂ H ₅ | 146 | 169.7 | | 0.950/20℃ | 59 | | ～1.05 |
| | 3-Methoxy butyl acetate | CH ₃ COOCH ₂ CH ₂ CH(OCH ₃)CH ₃ | 146 | 171 | | 0.950/20℃ | 62.5 | 408 | 2.3～15 |
| | Propylene glycol monomethyl ether acetate | CH ₃ COOC(CH ₃)CH ₂ OCH ₃ | 131 | 146 | | 0.960/20℃ | | 272 | 1.5～10 |
| | Cellosolve acetate | C ₂ H ₅ OCH ₂ CH ₂ OCOCH ₃ | 132 | 156.3 | 8.7 | 0.973/20℃ | 51 | 379 | 1.7～8.2 |
| Ethers | Cellosolve (ethyl cellosolve) | C ₂ H ₅ OCH ₂ CH ₂ OH | 90 | 135.6 | 9.9 | 0.930/20℃ | 45 | 238 | 1.8～14.0 |
| | Butyl cellosolve | C ₄ H ₉ OCH ₂ CH ₂ OH | 118 | 170.2 | | 0.90/20℃ | 61 | 244 | 1.1～10.6 |
| | Isobutyl cellosolve | CH ₃ C(CH ₃) ₂ OCH ₂ CH ₂ OH | 118 | 160.5 | 9.3 | 0.903/20℃ | 50 | 417 | |
| | Propyl cellosolve | C ₃ H ₇ OCH ₂ CH ₂ OH | 104 | 149.5 | | 0.908/20℃ | 49(*1) | 235 | 1.26～15.8 |
| | Isopropyl cellosolve | (CH ₃) ₂ CHOCH ₂ CH ₂ OH | 104 | 142.8 | | 0.908/20℃ | 54 | 320 | 1.7～20 |
| | Propylene glycol monomethyl ether | CH ₃ OCH ₂ CH(OH)CH ₃ | 90 | 120 | 10.4 | 0.920/20℃ | 34.5 | 278 | 3～12 |
| | Propylene glycol monoethyl ether | C ₂ H ₅ CH ₂ CH(OH)CH ₃ | 104 | 132 | 7.5 | 0.898/20℃ | 39.5 | 272 | 1.3～12 |
| | Butyl carbitol | C ₄ H ₉ OCH ₂ CH ₂ OCH ₂ CH ₂ OH | 162 | 230.4 | 8.9 | 0.954/20℃ | 78 | 227 | 1.1～10.6 |

(Note) Written data are quoted from manufacturer's catalog, MSDS, etc.

(*1) Seta sealing

Gardner Bubble Viscosity Conversion Table

(25℃)

| Gardner viscosity | Poises * | Stokes | Gardner inversion seconds | Iwata cup I.H.S.(Seconds) | Ford cup #4(Seconds) | Zahn cup #2(Seconds) | Zahn cup #4(Seconds) |
|----------------------|----------------------------|---------|------------------------------|------------------------------|-------------------------|-------------------------|-------------------------|
| A5 | 0.00505 × Specific gravity | 0.00505 | | | | | |
| A4 | 0.0624 ∕ | 0.0624 | | | 5.0 | 16 | |
| A3 | 0.144 ∕ | 0.144 | | 2.5 | 8.0 | 17 | |
| A2 | 0.220 ∕ | 0.220 | | 9.0 | 13.6 | 19 | |
| A1 | 0.321 ∕ | 0.321 | | 12.0 | 15.3 | 20 | |
| A | 0.50 ∕ | 0.50 | | 16.0 | 19.0 | 22 | |
| B | 0.65 ∕ | 0.65 | | 19.5 | 22.0 | 27 | |
| C | 0.85 ∕ | 0.85 | | 26.0 | 27.0 | 34 | |
| D | 1.00 ∕ | 1.00 | 1.46 | 29.5 | 30.0 | 41 | |
| E | 1.25 ∕ | 1.25 | 1.83 | 37.0 | 36.0 | 49 | 11 |
| F | 1.40 ∕ | 1.40 | 2.05 | 42.0 | 40.0 | 58 | 13 |
| G | 1.65 ∕ | 1.65 | 2.42 | 49.0 | 46.0 | 66 | 14 |
| H | 2.00 ∕ | 2.00 | 2.93 | 54.0 | 50.0 | 82 | 17 |
| I | 2.25 ∕ | 2.25 | 3.30 | 60.0 | 55.0 | | 18 |
| J | 2.50 ∕ | 2.50 | 3.67 | 76.0 | 68.0 | | 20 |
| K | 2.75 ∕ | 2.75 | 4.03 | 86.0 | 74.0 | | 22 |
| L | 3.00 ∕ | 3.00 | 4.40 | | 81.0 | | 24 |
| M | 3.20 ∕ | 3.20 | 4.70 | | 86.0 | | 25 |
| N | 3.40 ∕ | 3.40 | 5.00 | | 91.0 | | 26 |
| O | 3.70 ∕ | 3.70 | 5.40 | | 99.0 | | 28 |
| P | 4.00 ∕ | 4.00 | 5.80 | | 107.0 | | 30 |
| Q | 4.35 ∕ | 4.35 | 6.40 | | 116.0 | | 33 |
| R | 4.70 ∕ | 4.70 | 6.90 | | 125.0 | | 34 |
| S | 5.00 ∕ | 5.00 | 7.30 | | 133.0 | | 37 |
| T | 5.50 ∕ | 5.50 | 8.10 | | 146.0 | | 40 |
| U | 6.27 ∕ | 6.27 | 9.20 | | 167.0 | | 44 |
| V | 8.84 ∕ | 8.84 | 13.00 | | 199.0 | | 64 |
| W | 10.70 ∕ | 10.70 | 15.70 | | 270.0 | | |
| X | 12.90 ∕ | 12.90 | 18.90 | | | | |
| Y | 17.60 ∕ | 17.60 | 26.10 | | | | |
| Z | 22.70 ∕ | 22.70 | 33.30 | | | | |
| Z1 | 27.00 ∕ | 27.00 | 39.60 | | | | |
| Z2 | 36.20 ∕ | 36.20 | 52.85 | | | | |
| Z3 | 46.30 ∕ | 46.30 | 67.9 | | | | |
| Z4 | 63.40 ∕ | 63.40 | 92.6 | | | | |
| Z5 | 98.50 ∕ | 98.50 | 143.8 | | | | |
| Z6 | 148.00 ∕ | 148.00 | 217.1 | | | | |
| Z7 | 388.00 ∕ | 388.00 | 566.5 | | | | |
| Z8 | 590.00 ∕ | 590.00 | 865.5 | | | | |
| Z9 | 855.00 ∕ | 855.00 | 1254.0 | | | | |
| Z10 | 1066.00 ∕ | 1066.00 | 1563.7 | | | | |

●Viscosity

* Poises=Stokes x Specific gravity

| Pa·s | cP | P |
|--------------------|-------------------|--------------------|
| 1 | 1x10 ³ | 1x10 |
| 1x10 ⁻³ | 1 | 1x10 ⁻² |
| 1x10 ⁻¹ | 1x10 ² | 1 |

(Note:1P=1dyn·s/cm²=1g/cm·s, 1Pa·s=1N·s/m², 1cP=1mPa·s)



The product data provided in this document are typical values, intended only as a guide, and should not be interpreted as sales specifications. For more detailed values, check each product TDS.