

# CURRENT INDUSTRIAL REPORTS SERIES

2007

## MA325F — PAINTS (COATINGS) AND ALLIED PRODUCTS

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of survey

This survey covers manufacturers of paints (coatings) and allied products.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey may complete a separate report form for each location or complete one report for the entire company. If you have questions concerning your report, please call or write to the U.S. Census Bureau for additional forms.

##### a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

##### b. Units of measure

Report all quantities of liquid shipments in 1,000 gallons and all values in thousands of dollars. Report quantity of powder coatings shipped in thousands of pounds.

#### 3. Definitions of selected paint and coatings terms

(Source: **Paint/Coatings Dictionary**, Federation of Societies for Coatings Technology, 1978. Some definitions have been modified to meet the specific needs of this report.)

*Architectural coatings (items 5112–5193)* — Coatings for on-site application to interior or exterior surfaces of residential, commercial, institutional, or industrial buildings. These are protective and decorative finishes applied at ambient temperatures, for ordinary use and exposure. Report industrial new construction and maintenance paints on item codes 5301 or 5305.

*Clear finishes and spar varnishes* — Transparent protective and/or decorative films, including urethane coatings, natural varnishes and shellac varnishes.

*Eggshell finish* — Low sheen (semi-matte) surface which exhibits surface reflectance (gloss) similar to that of an eggshell, lying between flat and semigloss.

*Enamels* — Topcoats with the ability to form a smooth surface; usually associated with a high gloss, but also used with lesser gloss, i.e.; flat enamels.

*Exterior coatings (items 5112–5155)* — Architectural coatings that are expected to possess reasonable durability when exposed to natural weathering.

*Lacquers* — Coating composition based on synthetic thermoplastic materials dissolved in organic solvent, which dries primarily by solvent evaporation. Typical lacquers include those based on nitrocellulose and other cellulose derivatives, vinyl resins, acrylic resins, etc.

*Solvent* — Non-aqueous liquid, usually volatile, used to dissolve or disperse the coating constituents, which evaporates during drying and does not become part of the dried coating.

*Stains* — Transparent or semitransparent solutions or suspensions of coloring matter in a vehicle, designed to color a surface by penetration without hiding it, or to color a material into which it is incorporated.

*Undercoat* — A coat of paint applied on new wood, over a primer, or over a previous coat of paint, to improve the seal and to serve as base for the topcoat.

*OEM Coatings (item codes 5221–5269)* — Coatings formulated specifically for Original Equipment Manufacturers (OEM) to meet conditions of application and product requirements, and applied to such products during the manufacturing process. Report OEM and refinish marine coatings on item code 5315. Report all other refinish paints on item code 5313. See "Industry Code Correlation" for a list of NAICS industry codes for the products that correspond to these coatings.

*Electrical insulating coatings (item code 5253)* — Coatings (varnishes), often used in combination with materials such as mica, fabric, paper, etc., to provide insulation for electrical equipment. These coatings are formulated to have high resistance to electrical conduction.

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*Powder coatings (item codes 5254–5268)* — 100 percent solids coatings applied as dry powders and subsequently formed into a film through the application of heat or energy.

*Primer* — First complete coat of a painting system applied to a surface. Designed to provide adequate adhesion to new surfaces and to meet special requirements such as absorption and/or corrosion control.

*SPECIAL PURPOSE COATINGS, INCLUDING COATING FOR TRANSPORTATION AFTER MARKET (item codes 5301–5331)*

*Special purpose coatings* may also be stock type or shelf goods, but differ from general architectural coatings by the fact that they are formulated for special applications and/or special environmental conditions such as extreme temperatures, chemicals, fumes, etc.

*Industrial new construction and maintenance paints* — High performance coatings formulated to withstand extremes of use, such as heavy abrasion, water immersion, chemicals, corrosion, extreme temperatures, and electrical or solvent exposure.

Also includes maintenance coatings used to maintain nonresidential structures; building and nonbuilding requirements in such areas as public utilities, railroads, roads and highways; and other industrial plant coatings; the primary purpose of which is protection. Report residential maintenance coatings on item codes 5112–5193, architectural coatings.

*Marine paints, including ship and offshore* — Paints and coatings specifically formulated to withstand water immersion and exposure to marine atmosphere. Exclude spar varnish. Includes marine refinish paints.

*Refinish paints (item code 5313)* — Coatings formulated specifically to meet particular product and application requirements, and sold to the refinishing trade or through retail outlets for aftermarket application. Report marine refinish coatings on item code 5315.

*Traffic marking paints (item code 5311)* — Paints specially formulated to withstand wear of vehicular traffic and to be highly visible at night; used to mark center lines on roadways, traffic lanes, crosswalks, etc. Includes paints manufactured with reflective beads.

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### INDUSTRY CODE CORRELATION

The OEM coatings covered in item codes 5221—5267 are formulated specifically for application on certain categories of products during the manufacturing process. The following list matches these products with the appropriate NAICS code, 4-digit codes (ie.; 3361XX) represent industry groups; NAICS 6-digit codes (ie.; 321992) represent industries.

Product code	Product description	Item code	NAICS code	Industry description
3255104111	Automobile, light truck, van, and sport utility vehicle finishes	5221	3361XX 3363XX	Motor Vehicle Manufacturing Motor Vehicle Parts Manufacturing
3255104121	Automobile parts finishes	5224	3363XX	Motor Vehicle Parts Manufacturing
3255104131	Heavy duty truck, bus, and recreational vehicle finishes	5226	321991 336211 336212 336214	Manufactured Home (Mobile Home) Mfg Motor Vehicle Body Manufacturing Truck Trailer Manufacturing Travel Trailer and Camper Manufacturing
3255104141	Other transportation equipment finishes, including aircraft and railroad	5228	3364XX 336510 336991 3369XX	Aerospace Product and Parts Manufacturing Railroad Rolling Stock Manufacturing Motorcycle, Bicycle, and Parts Manufacturing Other Transportation Equipment Manufacturing
3255104211	Appliance, heating equipment and air-conditioner finishes	5235	3352XX 333414 333994 333415	Household Appliance Manufacturing Heating Equipment Manufacturing Industrial Furnace and Oven Manufacturing Air-conditioning and Warm Air Heating Equipment Manufacturing
3255104215	Wood-furniture, cabinet and fixture finishes	5237	32191X 337110 321999 337122 337121 337129  337211 337127 339992 339995	Millwork Wood Kitchen Cabinet and Countertop Mfg All Other Miscellaneous Wood Product Mfg Nonupholstered Wood Household Furniture Mfg Upholstered Household Furniture Mfg Wood TV, Radio, and Sewing Machine Cabinet Manufacturing Wood Office Furniture Manufacturing Institutional Furniture Manufacturing Musical Instrument Manufacturing Burial Casket Manufacturing
3255104219	Wood and composition board flat stock finishes	5239	321211 321212 321219 337212  337920	Hardwood Veneer and Plywood Manufacturing Softwood Veneer and Plywood Manufacturing Reconstituted Wood Product Manufacturing Custom Architectural Woodwork and Millwork Manufacturing Blind and Shade Manufacturing
3255104221	Metal building product finishes, including coatings for aluminum extrusions and siding	5241	332510 332321 332322 332999	Hardware Manufacturing Metal Window and Door Manufacturing Sheet Metalwork Manufacturing All other Misc Fabricated Metal Products Mfg
3255104225	Container and closure finishes	5243	33243X 332115 332999	Metal Can, Box, & Other Metal Container Mfg Crown and Closure Manufacturing All Other Misc Fabricated Metal Product Mfg
3255104229	Other machinery and equipment finishes	5247	3353XX 3352XX 3351XX 3342XX 3344XX  3359XX  3336XX 333111 333120	Electrical Equipment Manufacturing Household Appliance Manufacturing Electric Lighting Equipment Manufacturing Communications Equipment Manufacturing Semiconductor & Other Electric Component Mfg Other Electrical Equipment and Component Mfg Engine, Turbine, and Power Transmission Equipment Manufacturing Farm Machinery and Equipment Manufacturing Construction Machinery Manufacturing

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## DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

### INDUSTRY CODE CORRELATION — Continued

Product code	Product description	Item code	NAICS code	Industry description	
3255104229	Other machinery and equipment finishes	5247	3335XX 3332XX 3339XX 3333XX	Metalworking Machinery Manufacturing Industrial Machinery Manufacturing Other General Purpose Machinery Mfg Commercial & Service Industry Machinery Mfg	
			334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Mfg	
			3345XX	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	
			333314 3391XX 333315	Optical Instrument and Lens Manufacturing Medical Equipment and Supplies Mfg Photographic and Photocopying Equipment Mfg	
3255104231	Non-wood furniture and fixture finishes, including business equipment finishes		5249	337214 337124 337910 337127 337215 337920 3329XX 3341XX 335121 335122 334310 339995	Office Furniture (except wood) Manufacturing Metal Household Furniture Manufacturing Mattress Manufacturing Institutional Furniture Manufacturing Showcase, Partition, Shelving, & Locker Mfg Blind and Shade Manufacturing Other Fabricated Metal Product Manufacturing Computer and Peripheral Equipment Mfg Residential Electric Lighting Fixture Mfg Commercial, Industrial, and Institutional Electric Lighting Audio and Video Equipment Manufacturing Burial Casket Manufacturing
3255104235	Paper, paperboard, film and foil finishes, excluding pigment binders	5252		3221XX 3222XX	Pulp, Paper, and Paperboard Mills Converted Paper Product Manufacturing
3255104239	Electrical insulating coatings			332618 3314XX	Other Fabricated Wire Product Manufacturing Nonferrous Metal (except Aluminum) Production and Processing
3255104265	Other industrial product finishes, excluding semi-manufactured products such as pigment dispersions and ink vehicles	5367		339992 3399XX 339994 339950	Musical Instrument Manufacturing Other Miscellaneous Manufacturing Broom, Brush, and Mop Manufacturing Sign Manufacturing

#### 4. Comparability

If you also report in the Annual Survey of Manufactures (Form MA-10000), the sum of values for item codes shown in column (a) should correspond to the dollar values reported under product class codes indicated in column (b) below:

Current Industrial Reports (Form MA325F)	Annual Survey of Manufactures
Item codes (a)	Product class codes (b)
5112–5193	3255101100
5221–5269	3255104100
5301–5331	3255107100
5523–5598	325510B100

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## REFERENCE LIST

FORM <b>MA325F</b>		
<b>PAINTS AND ALLIED PRODUCTS</b>		
Product code	Item code	Item description
		<b>Architectural coatings</b>
		Exterior solvent type
3255101111	5112	Solvent thinned paints and tinting bases, including barn and roof paints
3255101115	5115	Solvent thinned enamels and tinting bases including exterior-interior floor enamels
3255101119	5125	Solvent thinned undercoaters and primers
3255101121	5135	Solvent thinned clear finishes and sealers
3255101125	5137	Solvent thinned stains, including shingle and shake
3255101129	5139	Other exterior solvent thinned coatings, including bituminous paints
		Exterior water-type
3255101131	5141	Water thinned paints and tinting bases, including barn and roof paints
3255101135	5142	Water thinned exterior-interior deck and floor enamel
3255101139	5144	Water thinned undercoaters and primers
3255101141	5149	Water thinned stains and sealers
3255101145	5155	Other exterior water thinned coatings
		Interior solvent type
3255101211	5163	Flat solvent thinned wall paint and tinting bases, including mill white paints
3255101215	5165	Gloss and quick drying enamels and other gloss solvent thinned paints and enamels
3255101219	5169	Semigloss, eggshell, satin solvent thinned paints and tinting bases
3255101221	5171	Solvent thinned undercoaters and primers
3255101225	5175	Solvent thinned clear finishes and sealers
3255101229	5177	Solvent thinned stains
3255101231	5179	Other interior solvent thinned coatings
		Interior water-type
3255101235	5181	Flat water thinned paints and tinting bases
3255101239	5183	Semigloss, eggshell, satin and other gloss water thinned paints and tinting bases
3255101241	5186	Water thinned undercoaters and primers
3255101245	5188	Other interior water thinned coatings, stains, and sealers
3255101249	5193	Architectural lacquers
3255101100	5199	<b>Total architectural coats — Sum of codes 5112–5193</b>

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## REFERENCE LIST — Continued

FORM <b>MA325F</b>		
Product code	Item code	Item description
		<b>Product finishes for original equipment manufacturers (OEM), excluding marine coatings</b> (Report powder coatings with item codes 5254–5266)
3255104111	5221	Automobile, light truck, van, and sport utility vehicle finishes
3255104121	5224	Automobile parts finishes
3255104131	5226	Heavy duty truck, bus, and recreational vehicle finishes
3255104141	5228	Other transportation equipment finishes, including aircraft and railroad
3255104211	5235	Appliance, heating equipment, and air-conditioner finishes
3255104215	5237	Wood furniture, cabinet and fixture finishes
3255104219	5239	Wood and composition board flat stock finishes
3255104221	5241	Metal building product finishes (including coatings for aluminum extrusions and siding)
3255104225	5243	Container and closure finishes
3255104229	5247	Machinery and equipment finishes, including road building equipment and farm implements
3255104231	5249	Non-wood furniture and fixture finishes, including business equipment finishes
3255104235	5252	Paper, paperboard, film, and foil finishes, excluding pigment binders
3255104239	5253	Electrical insulating coatings
		<b>Powder coatings</b> (Report quantity in thousands of pounds)
		Thermoset general decorative:
3255104241	5254	Appliance powder coatings
3255104245	5256	Automotive powder coatings
3255104249	5258	Architectural powder coatings (such as aluminum extrusions)
3255104251	5260	Lawn and garden powder coatings
3255104255	5262	General metal finishing powder coatings
3255104257	5263	Heat sensitive substrates powder coatings (such as wood, plastics, composites, etc.)
3255104259	5264	Thermoset functional powder coatings (for pipe, rebar, electrical insulation, etc.)
3255104261	5266	Thermoplastic powder coatings (all)
3255104263	5268	Other powder coatings
3255104265	5269	Other industrial product finishes. (Report semi-manufactured products such as pigment dispersions and ink vehicles in item codes 5533 and 5598)
3255104100	5299	<b>Total product finishes for original equipment manufacturers (OEM), excluding marine coatings — Sum of codes 5221–5269</b>

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## REFERENCE LIST — Continued

FORM <b>MA325F</b>		
Product code	Item code	Item description
		<b>Special purpose coatings, including all marine coatings</b>
		Industrial new construction and maintenance paints (especially formulated coatings for special conditions of industrial plants and/or facilities requiring protection against extreme temperatures, fungi, chemicals, fumes, etc.)
3255107111	5301	Interior
3255107115	5305	Exterior
3255107121	5311	Traffic marking paints (all types, shelf goods and highway department)
3255107131	5313	Automotive, other transportation, and machinery refinish paints and enamels, including primers
3255107141	5315	Marine paints, ship and off-shore facilities, and shelf goods for both new construction and marine refinish and maintenance. Excludes spar varnish
3255107151	5319	Marine paints for yacht and pleasure craft, new construction, refinish, and maintenance
3255107161	5331	Aerosol — Paint concentrates produced for packaging in aerosol containers
3255107100	5399	<b>Total special purpose coatings — Sum of codes 5301–5331</b>
		<b>Miscellaneous allied paint products</b>
325510B111	5523	Paint and varnish removers
325510B121	5531	Thinners for lacquers and other solvent based paint products
325510B131	5533	Pigment dispersions
325510B141	5598	Other miscellaneous allied paint products, including brush cleaners, ink vehicles, putty and glazing compounds, etc.
325510B100	5599	<b>Total miscellaneous allied paint products — Sum of codes 5523–5598</b>

**NOTES:**