

Environmental Product Declaration – SPEEDHIDE® SUPER TECH WB Interior Latex Dry Fog

SPEEDHIDE® Super Tech WB Interior Latex Dry Fog is a premium professional line of fast-drying, low VOC paint designed for excellent adhesion and hiding on interior ceilings and overhead surfaces. *Speedhide* Super Tech WB Interior Latex Dry Fog dry falls at 10 feet and is available in hundreds of colors along with professional color tools from PPG THE VOICE OF COLOR® program. Visit ppgpaints.com for more information.

The product image to the right is an example of one of the formulas covered by the EPD. A list of all relevant Speedhide Super Tech WB Interior Latex Dry Fog formulas is shown in Table 1 in this EPD.





Declaration Holder	PPG Architectural Finishes, Inc. (email: pPGACProductStewardship@ppg.com);
	website: www.ppgac.com for additional information)
Declaration Number	EPD10077
Declared Product	SPEEDHIDE SUPER TECH WB Interior Latex Dry Fog
Product Category and Subcategory	Architectural Coatings – Interior Coatings
Program Operator	NSF International (ncss@nsf.org)
PCR	PCR for Architectural Coatings – 7-18-2015
Date of Issue	September 6, 2016
Period of Validity	5 years from date of issue
Product Contents	See Table 1.

The PCR review was conducted by	Thomas P. Gloria, PhD – Industrial Ecology Consultants				
	(t.gloria@industrial-ecology.com)				
This EPD was independently verified by NSF International	Jenny Oorbeck	☐ Internal			
in accordance with ISO 21930 and ISO 14025.	joorbeck@nsf.org				
This life cycle assessment was independently verified in	Jack Geibig – EcoForm igeibig@ecoform.com	☐ Internal			
accordance with ISO 14040/14044 and the PCR by	igeibig@ecoform.com				

Functional Unit	1m² of covered and protected substrate for a period of 60 years (the				
	assumed average lifetime of a building)				
Market-Based Lifetime Used in Assessment	5 years				
Design Lifetime Used in Assessment	3 years (See Table 4)				
Test Methods Used to Calculate Design Life	ASTM D2805-11, ASTM D2486-06, ASTM D6736-08, ASTM D4828-94				
Estimated Amount of Colorant	Varies (see Table 4)				
Data Quality Assessment Score	Very Good				
Manufacturing Location(s)	All PPG manufacturing locations in the United States producing the				
	products listed in this EPD.				

Contents of the Declaration:

Product Definition, Characteristics and Specifications | LCA Methodology | Key Environmental Parameters

Material and Energy Resource Use, Emissions and Waste | LCA Interpretation | Additional Environmental

Information | Data Quality Assessment | References | Glossary

In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the building level per ISO 21930 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis.



Product Definition, Characteristics and Specifications:

The *Speedhide* Super Tech WB Interior Latex Dry Fog professional line is available in Flat, Eggshell and Semi-Gloss sheens and is self-priming on a variety of substrates. It has been formulated to provide excellent adhesion that eliminates crawling on the surface and offers excellent flash rust resistance. *Speedhide* Super Tech is ideal for gymnasiums, commercial warehouses, factories, retail outlets, and parking structures. *Speedhide* Super Tech WB Interior Latex Dry Fog is manufactured by PPG at several manufacturing facilities throughout the United States, and with global headquarters in Pittsburgh, Pennsylvania.

<u>Product Classification and Description:</u>

The *Speedhide* Super Tech WB Interior Latex Dry Fog products listed below are included within this assessment. The primary differences between these products are gloss levels (sheen) and base types. For additional information on each of the specific products, please visit www.ppgpaints.com.

Table 1 - List of SPEEDHIDE Super Tech WB Interior Latex Dry Fog formulas assessed by LCA model and report

EPD Product Name	Product	Sheen	PCR Base Type
	Number		
Speedhide Super Tech WB Latex Dry-Fog Interior Flat White and	6-725XI	Flat	Light base
Pastel Base (6-725XI)			
Speedhide Super Tech WB Latex Dry-Fog Interior Flat Neutral	6-726XI	Flat	Deep base
Base (6-726XI)			
Speedhide Super Tech WB Latex Dry-Fog Interior Flat Black (6-	6-723XI	Flat	Non-tintable
723XI)			
Speedhide Super Tech WB Latex Dry-Fog Interior Eggshell White	6-724XI	Eggshell	Light base
and Pastel Base (6-724XI)			
Speedhide Super Tech WB Latex Dry-Fog Interior Semi-Gloss	6-727XI	Semi-	Light base
White and Pastel Base (6-727XI)		Gloss	

Under the Product Category Rule (PCR) for Architectural Coatings, all of the *Speedhide* Super Tech WB Interior Latex Dry Fog products fall under the <u>General exterior and interior coatings category</u>. All *Speedhide* Super Tech WB Interior Latex Dry Fog products described in this EPD are considered to be Interior Architectural Coatings (See <u>Glossary</u> for category definitions).,

The manufacturing process for architectural coatings primarily involves the mixing and dispersing of raw materials into a homogeneous mixture. Raw materials include *pigments and fillers*, which provide color, hiding, and gloss control; *resins/binders*, which act as the glue or adhesive to adhere the coating to the substrate; *water*, which acts as a thinner and carrier; and *additives*, which assist with various coating properties. The product is then packaged for distribution to the customer.

The typical composition of a *Speedhide* Super Tech WB Interior Latex Dry Fog coating is shown by % weight in Table 2 along with simplified version of this process shown in Figure 1.



Ingredient category	% of product by weight		
Additives	1-3%		
Preservatives	0-1%		
Binders	4-9%		
Fillers	22-34%		
Glycols, esters, ethers	0-2%		
Pigments	0-2%		
Titanium dioxide	0-12%		
Water	52-60%		
Table 2 -Composition of products listed in this EPD			

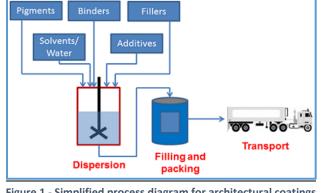


Figure 1 - Simplified process diagram for architectural coatings manufacturing

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Life Cycle Assessment Methodology:

Calculation of quantities needed to satisfy the functional unit:

In accordance with the PCR, this EPD is based on a cradle-to-grave LCA, and the functional unit for the study is defined as 1 m² of covered and protected substrate for a period of 60 years (the assumed average lifetime of a building). The PCR requires separate analyses for a market-based lifetime and a design lifetime for the coating product. The prescribed market-based lifetime for interior coatings is 5 years. Durability testing is specified to determine the design lifetime, separated into low quality (3 year lifetime), medium quality (7 year lifetime) and high quality (15 year lifetime) finishes. The specific tests and results required to qualify for each design lifetime classification are shown in Table 3.

Table 3 -Required testing for design lifetime of interior coatings

Test Type	Test	Substrate	Low Quality	Mid Quality	High Quality
Scrub Resistance	ASTM D2486-06 (2012)e1	Plastic	< 100 scrubs	100 – 400 scrubs	> 400 scrubs
Burnish – 20 cycle	ASTM D6736-08 (2013)	Plastic	Change in gloss > 20	Change in gloss between 10 – 20	Change in gloss < 10
Washability	ASTM D4828-94 (2012)e1	Plastic	Avg. score < 3	Avg. score between 3 – 7	Avg. score > 7



Each *Speedhide* Super Tech WB Interior Latex Dry Fog product was subjected to these tests and the corresponding quality levels and coating quantities were calculated for each (Table 4).

Following the PCR, for any coating that can accept colorant, it was assumed that the full allowable amount of colorant is added to the paint either at the point of sale or application site. The tint/colorant inventory was taken from the GaBi carbon black pigment data (furnace black; deep black pigment — Revised 11/30/2014) in the appropriate quantity specified for the type of coating base for the respective *Speedhide* Super Tech WB Interior Latex Dry Fog product. The amount of colorant needed for each formula is shown in Table 4, and its impact is included in the overall LCA results.

Speedhide Speedhide Speedhide Super Tech WB Speedhide Super Tech WB Super Tech WB Latex Dry-Fog Super Tech WB Speedhide Latex Dry-Fog Latex Dry-Fog **Interior Flat** Latex Dry-Fog Super Tech WB Interior Eggshell Interior Semi-White and Interior Flat Latex Dry-Fog White and Gloss White and Neutral Base (6-Pastel Base (6-Pastel Base (6-Interior Flat Pastel Base (6-**EPD Product Name** 725XI) 726XI) Black (6-723XI) 724XI) 727XI) Quality level Low Low Low Low Low Technical lifetime (years) 3 3 3 3 3 Market lifetime (years) 5 7 5 5 6 Technical lifetime quantity (kg) 6.01 5.63 5.90 9.64 3.82

2.29

358

215

3.38

0

3.54

210

126

5.79

364

218

Table 4 - Coating lifetimes and quantities needed to satisfy functional unit

Allocation:

In the LCA model, the only allocation used was a mass-based allocation during the manufacturing process, to assign PPG manufacturing plant inputs and outputs across multiple products produced at the same plant.

3.61

210

126

System Boundary:

Market lifetime quantity (kg)

Colorant - Market lifetime (g)

Colorant - Technical lifetime (g)

Because this is a cradle-to-grave LCA as required by the PCR, the system boundary includes all life cycle stages as defined by ISO 21930, from raw material extraction and processing, coating manufacture, application and end-of-life treatment, with transportation included in all stages. The system process flow diagram is shown in Figure 2. Items shown outside the system boundary in Figure 2 were excluded from the assessment in accordance with the PCR.

Criteria for the inclusion of inputs and outputs:

All components of the coating formulations which comprised more than 0.1% of the manufactured product were included in the study. The models were constructed to meet the minimum of 95% of the total mass, energy, and environmental relevance of the system, except for items excluded from the study as specified in the PCR.



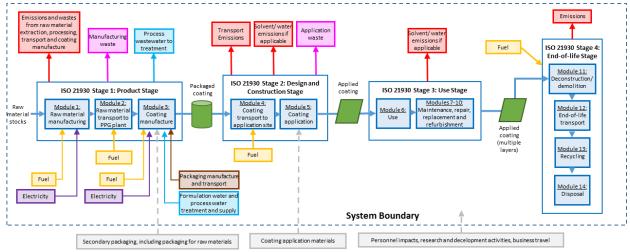


Figure 2 - Process flow diagram and system boundary for this EPD

Life Cycle Impact Assessment Methodology:

The Life Cycle Impact Assessment (LCIA) step of the analysis groups emissions and resource consumption into categories by known environmental impacts to which they contribute, and applies characterization factors to calculate the relative importance of each substance in a category. The U.S.-based TRACI 2.1 (Bare 2011) method was used to calculate the impacts in the following impact categories, in accordance with the PCR:

- Climate change or global warming potential (GWP 100 years) [kg CO₂-eq.]: Biomass carbon uptake and its re-release of CO₂ and CH₄ were reported separately based on the biogenic carbon content of the products.
- Acidification potential of land and water sources (AP) [kg SO₂-eq]:
- Photochemical ozone creation potential (POCP, or "Smog Formation") [kg O₃ eq.]
- Eutrophication potential (EP) [kg N eq.]
- Stratospheric ozone depletion potential (ODP) [kg CFC-11 eq.]

Additional life cycle inventory results reported in accordance with the PCR are the following:

- Depletion of non-renewable energy resources [MJ]
- Depletion of non-renewable material resources [kg]
- Use of renewable primary energy [MJ] defined as renewable non-fossil energy sources: wind, solar, geothermal, wave, tidal, hydropower, biomass, landfill gas, sewage treatment plant gas and biogases.
- Use of renewable material resources [kg] defined as materials that can be readily replaced by natural means on a level equal to their consumption.
- Consumption of freshwater [m³] limited to the net value between uptake and re-release, accounting only for evaporation and other forms of water displacement.
- Hazardous waste [kg] as defined by RCRA under 40 CFR 261.33
- Non-hazardous waste [kg]



Key Environmental Parameters:

The LCIA results from the TRACI method for each product are shown in Table 5. Average results for all products included in this EPD are documented and grouped separately into the different life cycle stages from ISO 21930 (as shown in Figure 2) and are shown graphically in Figure 3.

Table 5 - LCIA results (TRACI impact categories)

	Formulations				
Impact category	Speedhide Super Tech WB Latex Dry- Fog Interior Flat White and Pastel Base (6- 725XI)	Speedhide Super Tech WB Latex Dry- Fog Interior Flat Neutral Base (6-726XI)	Speedhide Super Tech WB Latex Dry- Fog Interior Flat Black (6- 723XI)	Speedhide Super Tech WB Latex Dry- Fog Interior Eggshell White and Pastel Base (6- 724XI)	Speedhide Super Tech WB Latex Dry- Fog Interior Semi-Gloss White and Pastel Base (6- 727XI)
Life o	cycle impact assess	ment results for t	echnical life scena	rio	
Ozone depletion (mg CFC-11 eq)	1.11	0.48	0.81	1.51	3.09
Global warming (kg CO2 eq)					
Without biogenic carbon	10.00	6.73	5.76	12.68	25.57
With biogenic carbon	10.70	7.11	6.27	13.50	27.06
Smog (kg O3 eq)	0.26	0.15	0.07	0.27	0.64
Acidification (kg SO2 eq)	0.01	0.01	0.01	0.02	0.04
Eutrophication (kg N eq)	0.02	0.01	0.01	0.02	0.07
Life	cycle impact asses	sment results for	market life scenar	io	
Ozone depletion (mg CFC-11 eq)	0.67	0.29	0.49	0.90	1.85
Global warming (kg CO2 eq)					
Without biogenic carbon	6.00	4.04	3.46	7.61	15.34
With biogenic carbon	6.42	4.27	3.76	8.10	16.23
Smog (kg O3 eq)	0.39	0.13	0.21	0.61	1.28
Acidification (kg SO2 eq)	0.03	0.01	0.02	0.04	0.08
Eutrophication (kg N eq)	0.04	0.02	0.03	0.05	0.09

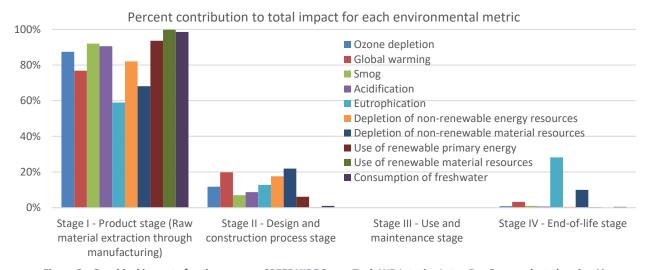


Figure 3 - Graphical impacts for the average SPEEDHIDE Super Tech WB Interior Latex Dry Fog product showing % contribution by life cycle stage



Material and Energy resources, Emissions and Wastes:

<u>Additional Life Cycle Inventory Results</u>

The additional inventory results required by the PCR for each product are shown in Table 6. Average results for all products included in this EPD are documented and grouped separately into the different life cycle stages from ISO 21930 (as shown in Figure 2) and are shown graphically in Figure 3 (preceding page).

Table 6 -Additional life cycle inventory results

	Formulations					
	Speedhide Super Tech WB Latex Dry-Fog Interior Flat White and	Dry-Fog Interior	Super Tech WB Latex Dry-Fog	Speedhide Super Tech WB Latex Dry-Fog Interior Eggshell White	Speedhide Super Tech WB Latex Dry-Fog Interior Semi-Gloss White	
Impact category	Pastel Base (6- 725XI)	Flat Neutral Base (6-726XI)	Interior Flat Black (6-723XI)	and Pastel Base (6-724XI)	and Pastel Base (6-727XI)	
Additional e	nvironmental metr	· <i>·</i>			(0-727/1)	
Depletion of non-renewable energy				(000 00 = /		
resources (MJ)	150.76	112.66	111.50	192.50	405.69	
Fossil	142.07	108.44	105.30	180.81	382.82	
Nuclear	8.35	4.19	6.14	11.63	22.76	
Depletion of non-renewable						
material resources (kg)	8.59	4.69	5.15	8.73	15.39	
Use of renewable primary energy						
(MJ)	6.99	2.97	3.54	8.65	19.17	
Bio-based	3.37	1.10	1.62	3.86	8.92	
Wind/Solar/Geothermal	0.71	0.60	0.24	0.90	1.82	
Water	2.90	1.26	1.69	3.89	8.42	
Use of renewable material	26.02	2.50	2.00	2.04	7.40	
resources (g)	26.82	2.59	3.80	3.94	7.43	
Consumption of freshwater (m3)	0.13	0.06	0.08	0.21	0.56	
Hazardous waste (%)	13%	13%	13%	13%	0%	
Non-hazardous waste (%)	87%	87%	87%	87%	100%	
VOC emissions (g)	130.67	42.80	61.20	129.23	285.61	
	environmental met	trics results for ma	rket life scenario	(See note 1)		
Depletion of non-renewable energy	22.5	67.6	66.0	445.5	242.4	
resources (MJ)	90.5	67.6	66.9	115.5	243.4	
Fossil	85.2	65.1	63.2	108.5	229.7	
Nuclear	5.0	2.5	3.7	7.0	13.7	
Depletion of non-renewable material resources (kg)	5.15	2.81	3.09	5.24	9.23	
Use of renewable primary energy	3.13	2.81	3.03	5.24	9.23	
(MJ)	4.19	1.78	2.13	5.19	11.50	
Bio-based	2.02	0.66	0.97	2.32	5.35	
Wind/Solar/Geothermal	0.43	0.36	0.14	0.54	1.09	
Water	1.74	0.76	1.01	2.33	5.05	
Use of renewable material	2.77	3.70	2.01	2.55	3.33	
resources (g)	16.09	1.55	2.28	2.36	4.46	
Consumption of freshwater (m3)	0.08	0.03	0.05	0.13	0.33	
Hazardous waste (%)	13%	13%	13%	13%	0%	
Non-hazardous waste (%)	87%	87%	87%	87%	100%	
VOC emissions (g)	78.40	25.68	36.72	77.54	171.36	

Note 1: The LCA did not explicitly include measurable amounts of secondary fuels or secondary/recycled materials.



Emissions to Water, Soil, and to Indoor Air:

Because coatings are a passive product during use, the only impacts occurring during this phase are generally due to the off-gassing of material components in the paint. The quantity of VOC emissions during the use phase for *Speedhide* Super Tech WB Interior Latex Dry Fog base products are assumed to equal the EPA Method 24 listed VOC contents on the label and are shown in Table 6.

LCA Interpretation

The LCA results show that the raw materials (Stage I, Module 1) tend to contribute highly to the impact of many indicators. This high contribution of raw materials to the impact indicators is not unexpected. As paints are primarily mixtures of pre-processed ingredients, much of the expenditure of energy, raw materials, processing, waste processing, etc. in bringing the product to existence has occurred prior to the entry of the raw materials onto the PPG production site. The majority of the impact of the raw materials comes from the titanium dioxide and the binder. This is typical for coatings products since these two raw materials are often present in high proportions and have a relatively high processing energy demand. The use phase contributes no impacts because maintenance repainting is calculated as a multiple of the initial impacts for the raw materials, manufacturing, transport and application (Stages I and II) of each product.

Additional Environmental Information:

Environmental Certifications

Speedhide Super Tech WB Interior Latex Dry Fog coatings meet the most stringent VOC regulations nationwide, are GREENGUARD® certified and GREENGUARD Gold certified. The specific GREENGUARD certificates are available online at www.greenguard.org.





Preferred End-of Life Options:

Please visit <u>www.paintcare.org</u> for information about disposing unused latex paint. If possible, unused paint should be taken to an appropriate recycling/take-back center or disposed of in accordance with local environmental regulatory agency guidance.

Data Quality Assessment:

To assess the input quality of the specific product data used in the LCA modeling, the pedigree matrix developed by Weidema and Wesnaes (1996) was used. The pedigree matrix rates data on a scale of 1 to 5 (1-poor, 2-fair, 3-good, 4-very good, 5-excellent) for each of 5 rating criteria: reliability of source, completeness, temporal correlation, geographical correlation, and technological correlation. Primary data for the year 2015 was obtained from PPG environmental reporting systems dealing with manufacturing plant operations. When primary data was for processes not directly under PPG's control, data was taken from the ecoinvent v3.1 database. ecoinvent is widely accepted by the LCA community. The regional U.S. electric power grid generation mix for each plant was used in the LCA model according to the percentage of product made at that plant. The primary data is considered to be of excellent quality and ecoinvent very good. Because the transportation, application and disposal stages contained several assumptions specified in the PCR, these stages received a minimum score of good. Considering that the majority of environmental impact is in the stages for which the data was of higher quality, the overall data quality rating was assessed as Very Good.



PPG Architectural Coatings 400 Bertha Lamme Drive Cranberry Township, PA, 16066

References:

ASTM International, West Conshohocken, PA, 2014, www.astm.org.

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EPA VOC Calculation Rules. http://www3.epa.gov/ttn/atw/183e/aim/fr1191.pdf

ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures.

ISO 14040:2006 Environmental management - Life cycle assessment – Principles and framework.

ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

ISO 21930:2007 Sustainability in building construction – Environmental declaration of building products.

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Weidema, B.P., M.S. Wesnaes, Data quality management for life cycle inventories – an example of using data quality indicators. Journal of Cleaner Production, 1996, Vol 4, p. 167.

Glossary:

Acronyms & Abbreviated Terms:

- ACA: American Coating Association
- ASTM: A standards development organization that serves as an open forum for the development of
 international standards. ASTM methods are industry-recognized and approved test methodologies for
 demonstrating the durability of an architectural coating in the United States.
- ecoinvent: a life cycle database that contains international industrial life cycle inventory data on energy supply, resource extraction, material supply, chemicals, metals, agriculture, waste management services, and transport services.
- EPA WARM model: Unite States Environmental Protection Agency Waste Reduction Model.
- EPD: Environmental Product Declaration. EPDs are form of as Type III environmental declarations under ISO 14025. They are the summary document of data collected in the LCA as specified by a relevant PCR. EPDs can enable comparison between products if the underlying studies and assumptions are similar.
- GaBi: Created by PE INTERNATIONAL GaBi Databases are LCA databases that contain ready-to-use Life Cycle Inventory profiles.
- LCA: Life Cycle Assessment or Analysis. A technique to assess environmental impacts associated with all the stages of a product's life from cradle to grave (i.e., from raw material extraction through materials processing, manufacture, distribution, use, repair and maintenance, and disposal or recycling).
- NCSS: NSF International's National Center for Sustainability Standards
- PCR: Product Category Rule. A PCR defines the rules and requirements for creating EPDs of a certain product category.
- TRACI: Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts.
- VOC: Volatile organic compounds



Terminology from the PCR:

- Architectural coating: a coating recommended for field application to stationary structures or their appurtenances at the site of installation, to portable buildings, to pavements, or to curbs. For purposes of the PCR an 'architectural coating' does not include adhesives and coatings for shop applications or original equipment manufacturing, nor does it include coatings solely for application to non-stationary structures, such as airplanes, ships, boats, and railcars. Please see the product category requirements in Section 1.1 of the PCR. General architectural coatings are decorative or protective paints or coatings formulated for interior or exterior architectural substrates including, but not limited to: drywall, stucco, wood, metal, concrete, and masonry. Primers, sealers and undercoaters are coatings formulated for one or more of the following purposes: to provide a firm bond between the substrate and the subsequent coatings; to prevent subsequent coatings from being absorbed by the substrate; or to prevent harm to subsequent coatings by materials in the substrate; or to provide a smooth surface for the subsequent application of coatings; or to provide a clear finish coat to seal the substrate; or to prevent materials from penetrating into or leaching out of a substrate. Interior architectural coatings are defined as coatings that meet the product category requirements in section 1.1 of the PCR and that are applied to substrates that primarily reside in interior.
- <u>Biologic growth or bio deterioration</u>: any undesirable change in material properties brought about by the activities of microorganisms.
- <u>Blistering</u>: the formation of dome shaped hollow projections in paints or varnish films resulting from the local loss of adhesion and lifting of the film from the surface or coating.
- <u>Burnish resistance</u>: the resistance of a coating to an increase in gloss or sheen due to polishing or rubbing.
- <u>Design life</u>: The estimated lifetime of a coating based solely on its hiding and performance characteristics determined by results in certain ASTM durability tests.
- <u>Durability</u>: the degree to which coatings can withstand the destructive effect of the conditions to which they are subjected and how long they retain an acceptable appearance and continue to protect the substrate.
- <u>Erosion</u>: the wearing away of the top coating of a painted surface e.g., by chalking, or by the abrasive action of windborne particles of grit, which may result in exposure of the underlying surface. The degree of resistance is dependent on the amount of coating retained.
- <u>Flaking/Peeling</u>: the phenomenon manifested in paint films by the actual detachment of pieces of the film itself either from its substrate or from paint previously applied. Peeling can be considered as an aggravated form of flaking. It is frequently due to the collection of moisture beneath the film.
- Gloss: a value of specular reflection which is often used to categorize certain types of paints.
- <u>Intermediate processing</u>: the conversion of raw materials to intermediates (e.g. titanium dioxide ore into titanium dioxide pigment, etc.).
- Market-based life: The estimated lifetime of a coating based off the actual use pattern of the product type. In this instance, a repaint may occur before the coating fails.
- <u>Pigment</u>: the material(s) that give a coating its color.
- <u>Primary materials</u>: resources extracted from nature. Examples include titanium dioxide ore, crude oil, etc. that are used to create basic materials used in the production of architectural coatings (e.g., titanium dioxide).
- Resin/Binder: acts as the glue or adhesive to adhere the coating to the substrate.
- <u>Scrubbability</u> or scrub resistance: the ability of a coating to resist being worn away or to maintain its original appearance when rubbed repetitively with an abrasive material.
- <u>Secondary materials</u>: recovered, reclaimed, or recycled content that is used to create basic materials to be used in the production of architectural coatings.
- Washability: the ease with which the dirt can be removed from a paint surface by washing; also refers to the ability of the coating to withstand washing without removal or substantial damage.

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