

Sherwin-Williams 810 Guidelines

Segment	Name	Required	Max Repeat
Header			
BIG	Beginning Segment for Invoice	M	1
REF	Reference Numbers	M	10
LOOP – N1			200
N1	Name	M	1
N3	Address Information	O	2
N4	Geographic Location	O	1
DTM	Date/Time Reference	O	10
Detail			
LOOP - IT1			200000
IT1	Baseline Item Data (Invoice)	M	1
PID	Item Description	O	1000
REF	Reference Numbers	O	1000
DTM	Date/Time Reference	O	10
SAC	Allowance/Charge Information	O	5
Summary			
TDS	Total Monetary Value Summary	M	1
TXI	Tax Information	O	10
SAC	Allowance/Charge Information	O	5
CTT	Transaction Totals	M	1

Segment: BIG Beginning Segment for Invoice
Level: Header
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates

Option	Segment	Data Type	Min/Max	Description
Mandatory	BIG01	DT	8/8	Invoice Date
Mandatory	BIG02	AN	1/22	Invoice Number
Recommended	BIG03	DT	8/8	Purchase Order Date
Mandatory	BIG04	AN	1/22	Purchase Order Number
Not Used	BIG05	AN	1/30	Release Number
Not Used	BIG06	AN	1/8	Change Order Sequence Number
Not Used	BIG07	ID	2/2	Transaction Type Code
Not Used	BIG08	ID	2/2	Transaction Set Purpose Code
Not Used	BIG09	ID	1/2	Action Code
Not Used	BIG10	AN	1/22	Invoice Number

Segment: REF Reference Identification				
Level: Header				
Usage: Optional				
Max Use: 12				
Purpose: To specify identifying information				
Codes: REF01 - BM = Bill of Lading				
Option	Segment	Data Type	Min/Max	Description
Mandatory	REF01	ID	2/3	Reference Identification Qualifier
Mandatory	REF02	AN	1/30	Reference Identification
Optional	REF03	AN	1/80	Description
Not Used	REF04		Comp.	Reference Identifier

Segment: N1 Name				
Level: Header				
Usage: Mandatory				
Max Use: >1				
Purpose: To identify a party by type of organization, name and code				
Codes:				
N101 - RI = Remit To, and ST = Ship To				
N103 of RI = '92', of ST = '6'				
N104 of RI = SW Assigned Vendor Code, of 'ST' = SW Plant Code.				
Option	Segment	Data Type	Min/Max	Description
Mandatory	N101	ID	2/2	Entity Identifier Code
Recommended	N102	AN	1/35	Name
Mandatory	N103	ID	1/2	Identification Code Qualifier
Mandatory	N104	AN	2/17	Identification Code

Segment: N3 Address Information				
Level: Header				
Loop: N1				
Usage: Optional				
Max Use: 2				
Purpose: To specify the location of the named party				
Option	Segment	Data Type	Min/Max	Description
Mandatory	N301	AN	1/35	Address Information
Optional	N302	AN	1/35	Address Information

Segment: N4 Geographic Location

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Option	Segment	Data Type	Min/Max	Description
Mandatory	N401	AN	2/30	City
Mandatory	N402	ID	2/2	State or Province
Mandatory	N403	ID	3/9	Postal Code
Optional	N404	ID	2/3	Country Code
Not Used	N405	ID	1/2	Location Qualifier
Not Used	N406	AN	1/25	Location Identifier

Segment: DTM Date/Time Reference

Level: Header

Usage: Optional – Use **BIG** for Invoice & PO dates

Max Use: 10

Purpose: To specify pertinent dates and times

Option	Segment	Data Type	Min/Max	Description
Mandatory	DTM01	ID	3/3	Date/Time Qualifier
Mandatory	DTM02	DT	8/8	Date
Optional	DTM03	DT	4/8	Time
Optional	DTM04	ID	2/2	Time code
Not Used	DTM05	ID	2/3	Date/Time Period Format Qualifier
Not Used	DTM06	AN	1/35	Date/Time Period

Segment: IT1 Baseline Item Data (Invoice)
Level: Detail
Loop: IT1 **Repeat:** 200000
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions.
Codes:
IT101 = Line Number from PO
IT106 BP = Buyer Part Number

Option	Segment	Data Type	Min/Max	Description
Mandatory	IT101	AN	1/20	Assignment Identification
Mandatory	IT102	R	1/10	Quantity Invoiced
Mandatory	IT103	ID	2/2	Unit or Basis for Measurement Code
Mandatory	IT104	R	1/17	Unit Price
Not Used	IT105	ID	2/2	Basis of Unit Price Code
Mandatory	IT106	ID	2/2	Product/Service ID Qualifier (BP)
Mandatory	IT107	AN	1/48	Product/Service ID

Segment: PID Item Description
Level: Detail
Usage: Optional
Max Use: 1000
Purpose: Provide description for part number.
Codes: PID01 – F = "Free-Form"

Option	Segment	Data Type	Min/Max	Description
Mandatory	PID01	ID	1/1	Description Type
Mandatory	PID05	AN	1/80	Description

Segment: REF Reference Identification
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Codes: REF01 - BM = Bill of Lading

Option	Segment	Data Type	Min/Max	Description
Mandatory	REF01	ID	2/3	Reference Identification Qualifier
Mandatory	REF02	AN	1/30	Reference Identification
Optional	REF03	AN	1/80	Description
Not Used	REF04		Comp.	Reference Identifier

Segment: DTM Date/Time Reference				
Level: Detail				
Usage: Mandatory (Shipped Date)				
Max Use: 10				
Purpose: To specify pertinent dates and times				
Codes: DTM01 - 011 = Shipped Date				
Option	Segment	Data Type	Min/Max	Description
Mandatory	DTM01	ID	3/3	Date/Time Qualifier
Mandatory	DTM02	DT	8/8	Date
Optional	DTM03	DT	4/8	Time
Optional	DTM04	ID	2/2	Time code
Not Used	DTM05	ID	2/3	Date/Time Period Format Qualifier
Not Used	DTM06	AN	1/35	Date/Time Period

Segment: SAC Allowance or Charge Information				
Level: Detail				
Usage: Optional				
Max Use: 5				
Purpose: To request or identify an allowance or charge				
Codes:				
SAC01 - A = Allowance C = Charge				
SAC02 – (accepted codes) H520 = Bags (Super Sacks), H370 = Stenciling, D480 = Drums, F180 = Pallets, G870 = Shrink Wrap, G510 = Returnable, G940 = Slip Sheet (rail), G950 = Slip Sheet (truck), I370 = Unitizing				
SAC12 - 01 = Bill Back 02 = Off Invoice				
Option	Segment	Data Type	Min/Max	Description
Mandatory	SAC01	ID	1/1	Allowance or Charge Indicator
Mandatory	SAC02	ID	4/4	Allowance or Charge Code
Not Used	SAC03	ID	2/2	Agency Qualifier Code
Not Used	SAC04	AN	1/10	Agency Allowance or Charge Code
Mandatory	SAC05	N2	1/15	Amount
Not Used	SAC06	ID	1/1	Allowance/Charge Percent Qualifier
Not Used	SAC07	R	1/6	Percent
Not Used	SAC08	R	1/9	Rate
Not Used	SAC09	ID	2/2	Unit or Basis for Measurement Code
Not Used	SAC10	R	1/15	Quantity
Not Used	SAC11	R	1/15	Quantity
Mandatory	SAC12	ID	2/2	Allow/Chrg Method of Handling Code
Not Used	SAC13	AN	1/30	Reference Identification
Not Used	SAC14	AN	1/20	Option Number
Optional	SAC15	AN	1/80	Description
Not Used	SAC16	ID	2/3	Language Code

Segment: TDS Total Monetary Value Summary				
Level: Summary				
Usage: Mandatory				
Max Use: 1				
Purpose: To specify the total invoice discounts and amounts				
Option	Segment	Data Type	Min/Max	Description
Mandatory	TDS01	N2	1/15	Total Invoice Amount
Not Used	TDS02	N2	1/15	Amount Subject To Terms Discount
Not Used	TDS03	N2	1/15	Discounted Amount Due
Not Used	TDS04	N2	1/15	Terms Discount Amount

Segment: TXI Tax Information				
Level: Summary				
Usage: Optional				
Max Use: 10				
Purpose: To specify tax information				
Codes: TXI02 – CG or GS = GST PG = PST/QST SP = HST ZZ = SLS				
Option	Segment	Data Type	Min/Max	Description
Mandatory	TXI01	ID	2/2	Tax Type Code
Mandatory	TXI02	R	1/18	Monetary Amount
Not Used	TXI03	R	1/10	Percentage
Not Used	TXI04	ID	2/2	Tax Jurisdiction Code Qualifier
Not Used	TXI05	AN	1/10	Tax Jurisdiction Code
Not Used	TXI06	ID	1/1	Tax Exempt Code
Not Used	TXI07	ID	1/1	Relationship Code
Not Used	TXI08	R	1/9	Dollar Basis for Percentage
Not Used	TXI09	AN	1/20	Tax Identification Number
Not Used	TXI10	AN	1/20	Assigned Identification

Segment: SAC Allowance or Charge Information				
Level: Summary				
Usage: Optional				
Max Use: 5				
Purpose: To request or identify an allowance or charge				
Codes:				
SAC01 - A = Allowance C = Charge				
SAC02 – (accepted codes) D240 = Freight				
SAC12 - 01 = Bill Back 02 = Off Invoice				
Option	Segment	Data Type	Min/Max	Description
Mandatory	SAC01	ID	1/1	Allowance or Charge Indicator
Mandatory	SAC02	ID	4/4	Allowance or Charge Code
Not Used	SAC03	ID	2/2	Agency Qualifier Code
Not Used	SAC04	AN	1/10	Agency Allowance or Charge Code
Mandatory	SAC05	N2	1/15	Amount
Not Used	SAC06	ID	1/1	Allowance/Charge Percent Qualifier
Not Used	SAC07	R	1/6	Percent
Not Used	SAC08	R	1/9	Rate
Not Used	SAC09	ID	2/2	Unit or Basis for Measurement Code
Not Used	SAC10	R	1/15	Quantity
Not Used	SAC11	R	1/15	Quantity
Mandatory	SAC12	ID	2/2	Allow/Chrg Method of Handling Code
Not Used	SAC13	AN	1/30	Reference Identification
Not Used	SAC14	AN	1/20	Option Number
Optional	SAC15	AN	1/80	Description
Not Used	SAC16	ID	2/3	Language Code

Segment: CTT Transaction Totals				
Level: Summary				
Usage: Mandatory				
Max Use: 1				
Purpose: To transmit a hash total for a specific element in the transaction set				
Option	Segment	Data Type	Min/Max	Description
Mandatory	CTT01	N0	1/6	Number of Line Items
Not Used	CTT02	R	1/10	Hash Total
Not Used	CTT03	R	1/10	Weight
Not Used	CTT04	ID	2/2	Unit or Basis of Measurement Code
Not Used	CTT05	R	1/8	Volume
Not Used	CTT06	ID	2/2	Unit or Basis of Measurement Code
Not Used	CTT07	AN	1/80	Description

Required Information

Field	Segment to transmit in
Invoice Number	BIG
Invoice Date	BIG
PO Number	BIG
Bill of Lading	REF
Remit To Information	N1 Loop
Ship To Information	N1
Line Item Number	IT1
Sherwin-Williams Product ID	IT1
Quantity	IT1
Unit Price	IT1
Gross Invoice Amount	TDS