

NORTHSTAR MIXMASTER

Custom Formulas on
MixMaster
OFFLINE



Accelerating Paint Technology™

NORTHSTAR MIXMASTER

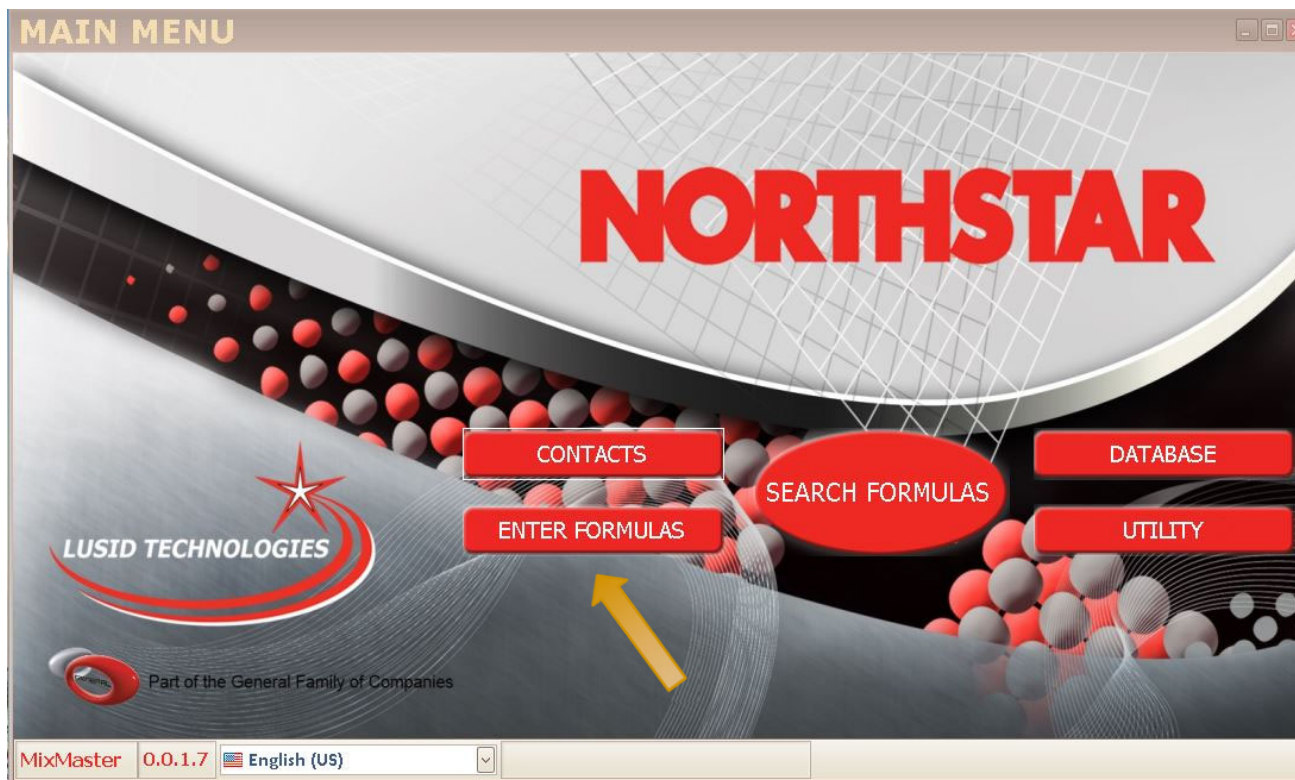
The intent of this presentation is to provide Step-by-Step instructions on how create and save new custom formulas using our Northstar MixMaster Formulation Offline application.



Accelerating Paint Technology™

Step -1

- Open MixMaster from Desktop Icon or from Windows Programs
- Once MixMaster loads click on “**ENTER FORMULAS**”



Step-2

- On this screen two options appear at the bottom
- Click on “**MANAGEMENT**”



Step-3

- On this screen click the “NEW” button at the top Menu Bar

Personal Formulas

Menu Search **New** Modify Delete Copy Export Import Recipe

Color Class	Code	Alternate Code	System	Name

MixMaster 0.0.1.7 English (US) Records Found: 0



Step-4

- On this screen it is important the order on how fields are filled

The screenshot shows the 'Personal Formulas' window with the following fields and arrows indicating the filling order:

- 1st. Formula Name:** Points to the 'Name' text field.
- 2nd Select System:** Points to the 'System' dropdown menu.
- 3rd Select Color Class:** Points to the 'Color Class' dropdown menu.
- 4th Select Code:** Points to the 'Code' text field.
- 5th Start adding Components:** Points to the 'Component' column header in the table below.

Additional interface details include buttons for Back, Save, Cancel, Systems, and Recipe; tabs for Definition and Notes; fields for Coating VOC, Material VOC, and Suffix; a table for Binders, Fixed, and Total; and a table for components with columns for N°, Component, Description, Grams, %, and Fixed.



Step-5

- As shown below the sequence on changing values is also important

Personal Formulas

Back Save Cancel Systems Recipe

Formula 935WN0006 **Name** Enter Any Name for New Formula **Size (gal)** 0.000

Definition **Notes**

System 935 AMP SERIES 3.5/2.8 HS POLYURETHANE TOP...
Color Class W White
Code N0006 **Alternate Code**
Chip
Tone

Coating VOC 3.270 **Material VOC** 0.000 **Suffix** A

	Volume	Grams	%	Cost
Tinters	0.0080	50.20	36.87	1.9521
Binders	0.0137	50.00	63.13	1.3300
Fixed	0.0000	0.00	0.00	0.0000
Total	0.0217	100.20	100.00	3.2821

☐ Approximate Formula

N°	Component	Description	Grams	%	Fixed
0	SHS12	WHITE MIXING TINT	50.00	36.63	<input type="checkbox"/>
1	SHS43	TINTING BLACK	0.20	0.24	<input type="checkbox"/>
2	935B	935 BINDER	50.00	63.13	<input type="checkbox"/>
*	[Select ...]				<input type="checkbox"/>

Record 3 of 3

MixMaster 0.0.1.7 English (US) Records Found: 1

- When entering Components make sure to enter correct amount "GRAMS".
- After entering every field press the "ENTER" key.



Ste-6

- On this screen you may change the % of “Toner” and “Binder” as well “Size (gal)”

Personal Formulas

Back Save Cancel Systems Recipe

Formula 935WN0006 **Name** Enter Any Name for New Formula **Size (gal)** 0.750

Definition **Notes**

System 935 AMP SERIES 3.5/2.8 HS POLYURETHANE TOP...
 Color Class W White
 Code N0006 Alternate Code
 Chip
 Tone ☐ Approximate Formula

Coating VOC 3.220 Material VOC 0.000 Suffix X

	Volume	Grams	%	Cost
Tinters	0.3750	2,356.80	50.00	91.6496
Binders	0.3750	1,370.97	50.00	36.4677
Fixed	0.0000	0.00	0.00	0.0000
Total	0.7500	3,727.77	100.00	128.1173

N°	Component	Description	Grams	%	Fixed
0	SHS12	WHITE MIXING TINT	2,347.41	49.68	<input type="checkbox"/>
1	SHS43	TINTING BLACK	9.39	0.33	<input type="checkbox"/>
2	935B	935 BINDER	1,370.97	50.00	<input type="checkbox"/>
	[Select ...]				<input type="checkbox"/>

Record 3 of 3

MixMaster 0.0.1.7 English (US) Records Found: 1

- Remember to press the “ENTER” key after every field change.
- Note: Toner and Binder % must be entered before Size (gal) is selected.
- Verify that Grams values have properly changed to reflect expected amounts.
- Once all fields reflect correct values you may proceed onto “Systems”



Step-7

- On this screen you may select all (if not already selected).

Personal Formulas

Save Undo **Select/Discard**

Color Class Code Alternate Code Name
 N0006 Enter Any Name for New Formula

Sel	Co	Description	Binder	Binder %	Approx.
<input checked="" type="checkbox"/>	128	128 SERIES BINDER	128B	80.25	<input type="checkbox"/>
<input checked="" type="checkbox"/>	135	3.5 VOC MODIFIED URETHANE 2K	135B	63.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	150	5.0 VOC MODIFIED ACRYLIC ENAMEL 2K	150B	66.51	<input type="checkbox"/>
<input checked="" type="checkbox"/>	777	Super Anti Sag DTM Urethane Topcoat	777B	50.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	928	2.8 VOC 100% POLYURETHANE 2K	928B	46.51	<input type="checkbox"/>
<input type="checkbox"/>	950	5.0 VOC 100% URETHANE 2K		50.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BC3	BLACKFIRE BASECOAT	BC3B	70.33	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BC3LV	LOW VOC BLACKFIRE BASECOAT	BC3LV	70.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MP	POLYESTER POLYOL PREMIUM 2K	MPB	38.87	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MPS	SLOW POLYESTER POLYOL PREMIUM 2K	MPBS	40.00	<input type="checkbox"/>

Selected Records: 9

MixMaster 0.0.1.7 English (US) Records Found: 10

- All fields should be checked and marked **RED**, but if they are not you may click on the “Select/Discard” button and select accordingly.
- The correct screen must be as shown on the left.
- You may also select only the Binders needed for this formula.
- Verify everything and click the “SAVE” button.



Step-8

- After you click on the “SAVE” button you will receive a confirmation

Personal Formulas

Save Undo Select/Discard

Color Class: W Code: N0006 Alternate Code: Name: Enter Any Name for New Formula

Sel	Code	Description	Binder	Binder %	Approx.
<input checked="" type="checkbox"/>	128	128 SERIES BINDER	128B	80.25	<input type="checkbox"/>
<input checked="" type="checkbox"/>	135	3.5 VOC MODIFIED URETHANE 2K	135B	63.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	150	5.0 VOC MODIFIED ACRYLIC ENAMEL 2K	150B	66.51	<input type="checkbox"/>
<input checked="" type="checkbox"/>	777	Super Anti Sag DTM Urethane Topcoat	777B	50.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	928	2.8 VOC 100% POLYURETHANE 2K	928B	46.51	<input type="checkbox"/>
<input type="checkbox"/>	950	5.0 VOC 100% URETHANE 2K		50.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BC3	BLACKFIRE BASECOAT	BC3B	70.33	<input type="checkbox"/>
<input checked="" type="checkbox"/>	BC3LV	LOW VOC BLACKFIRE BASECOAT	BC3LV	70.00	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MP	POLYESTER POLYOL PREMIUM 2K	MPB	38.87	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MPS	SLOW POLYESTER POLYOL PREMIUM 2K	MPBS	40.00	<input type="checkbox"/>

Selected Records: 9

MixMaster 0.0.1.7 English (US) Records Found: 10

- The confirmation will indicate that the formula has successfully been saved and ready for future use.
- At this point click “OK”.



Step-9

- This screen will indicate and display the formula you just created

Personal Formulas

Menu Search New Modify Delete Copy Export Import Recipe

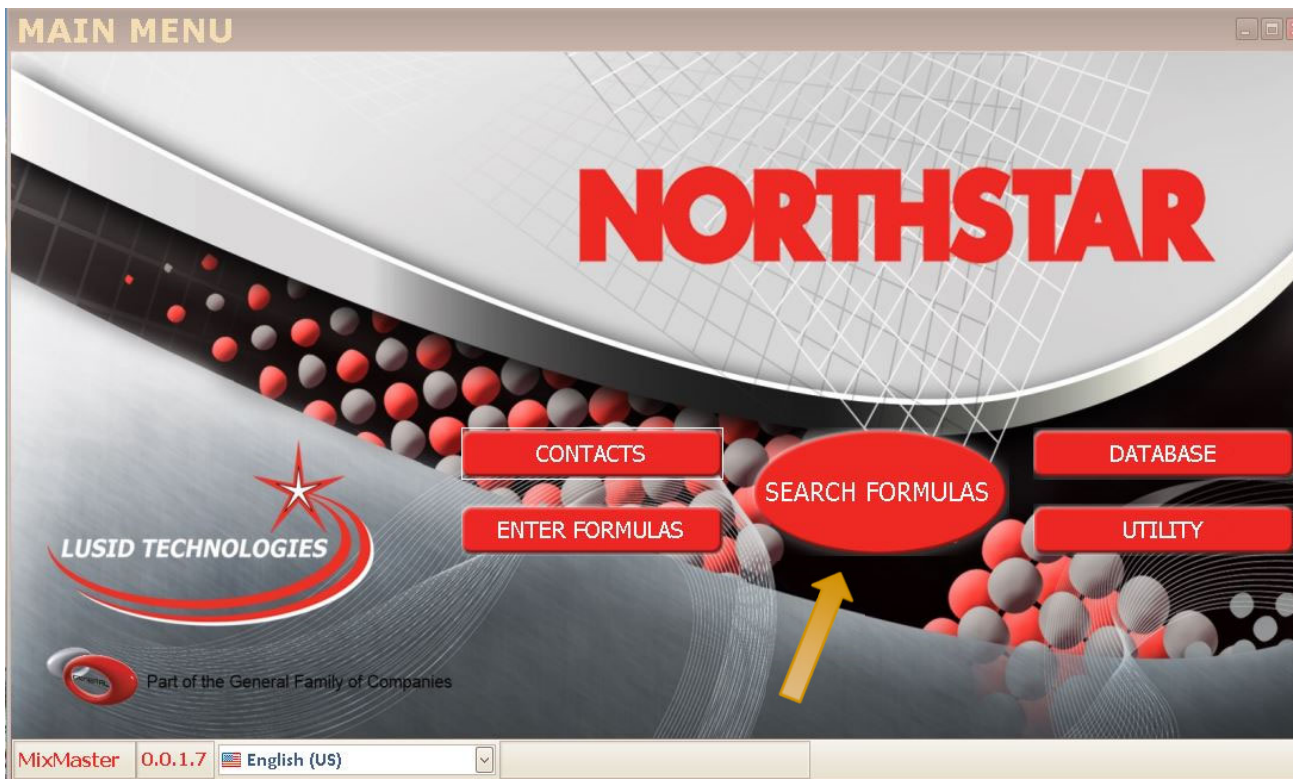
Color Class	Code	Alternate Code	System	Name
W	N0006		935	Enter Any Name for New Formula

MixMaster 0.0.1.7 English (US) Records Found: 1



Step-10

- Finding the newly created formula is as simple as finding any other formula



Step-11

- Remember that this is a CUSTOM formula.

Search Color

Menu Clear Systems

Search for a Color

Formula

Color Class
[All Colors ...]

Alternate Code

Chip

Catalog
CUSTOM FORMULAS

Advanced Search

Search by Color Deck

Search by Competitor

Search by Fleet

Search by Manufacturer

Color	Code	Alternate	Name	Chip	Catalog
W	N0006		Enter Any Name for New Formula		CUSTOM

MixMaster 0.0.1.7 English (US) Records Found: 1

- The newly created formula can be found under **“CATALOG -> CUSTOM FORMULAS”**
- Once you select Custom Formulas you will see any formulas that has been created on this specific Offline Application.



Metallic Formulation Guideline

If we exceed the maximum metallic load per gallon, we will have serious metallic control problems when spraying and gloss loss problems.

Maximum metallic load in a $\frac{3}{4}$ gallon and 1 gallon of paint per SHS toner.

Fine Metallics

$\frac{3}{4}$ Gallon

Full Gallon

SHS13

500gms

700gms

SHS37

500gms

700gms

SHS47

500gms

700gms

Medium Metallics

SHS14

600mgs

800mgs

SHS38

600mgs

800mgs

Course Metallics

SHS15

800mgs

1000mgs

Series	Tint	Fill Level
128	30%	1 Gallon Fill
935	50%	$\frac{3}{4}$ Gallon Fill
928	50%	$\frac{3}{4}$ Gallon Fill
135	37%	1 Gallon Fill
990	75%	1 Gallon Fill
150	30%	1 Gallon Fill
MP	60%	1 Gallon Fill
777	50%	$\frac{3}{4}$ Gallon Fill
BC3 Solid Colors	30%	1 Gallon Fill
BC3 Metallics	15-20%*	1 Gallon Fill

Contact Lusid before formula entry for more information for all Metallic Colors