

The PROCEED® System Recipe Calculator

The Proceed Recipe System Calculator is designed to make it easy to create, modify, print and archive recipes for colors and for Level 2 formulas based on the Proceed product line.

The Recipe Calculator downloads to your PC through your Internet Browser and, once you save a formula, you can access it, change it, and print it without being connected to the internet.

Your recipe details exist *only* on your computer and are not saved or kept on the Proceed website, so the recipes you create are your property, so we cannot help you retrieve any recipes that you accidentally lose. *Please make sure that you securely save your recipe files.*

For greater consistency, we recommend using a quality digital scale rather than fluid measurements for your recipes.

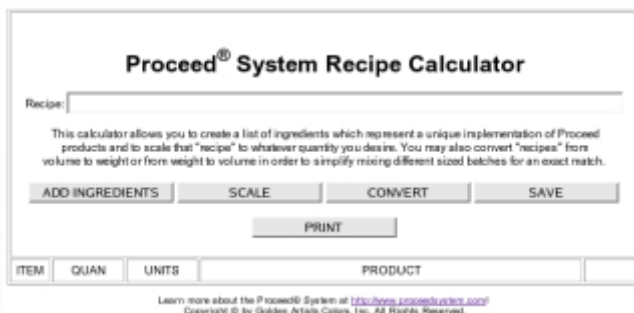
Instructions for using the Recipe Calculator

These instructions describe use with a Windows PC running Internet Explorer 7.0. If you are accessing the Proceed website using another browser or with a MAC and encounter difficulties, please let us know by clicking on the "Contact Us" link at the bottom of the home page.

1. Starting the Recipe Calculator

Either click on the "Build a New Recipe from Scratch" button above or by click a color in either of the Proceed interactive color charts. By clicking on a color the calculator opens with the formula already entered so you can convert and scale the amounts with the necessary ingredients. Clicking the "Build a New Recipe from Scratch" link on the Recipe Calculator page opens a blank calculator.

NOTE: If you see an ActiveX warning bar at the top of your browser window that says "Click here to allow blocked content." Simply click on the bar, select "Allow Blocked Content" and then click "yes" to the security warning in the dialog box that pops up to start the Calculator.



2. The Menu Page

We recommend that you name your formula right away and then "Save" the recipe. This saves the calculator to your PC, and allows you go back and finish or modify your recipe off-line at any time.

3. Adding Ingredients to Build a Recipe

On the Menu page, click the "ADD INGREDIENTS" button to select quantity, units, and product. Make your and change selections in any order then click the "ADD" button to include that item and quantity in the Recipe, below. Units can then be converted and scaled using the functions built into the Calculator, but the original values entered cannot be changed. To change the amount of a single item (a dispersion in a color formula, for example) delete the entire item from the formula by clicking on the yellow "X" on the right of that line and re-enter the item with the new desired amount.

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IMPORTANT: When scaling a color recipe to tint remember that Proceed gallon pails are short-filled to allow head space in the container for the addition of tints and proper mixing (this is standard across the architectural coatings industry). The fill level of Proceed textures and mediums is 115 oz. in a one gallon pail and 576 oz. in a 5 gallon pail. For example, to scale a color recipe for a one gallon pail of a Proceed product, first **CONVERT** the base material in the recipe to fluid ounces and then **SCALE** the recipe so that the base material portion is 115 oz.

For each ingredient in the recipe, select the product and units of measure by using the drop-down menus. You can build a recipe that includes any combination of Proceed products by selecting them through the drop-down menu. This facilitates creating and documenting your Proceed Level-2 recipes for blended textures and other product combinations. When you are finished adding items to your recipe, click the "MENU" button to return to the Menu page to access the other functions of the Calculator. If you need to add more ingredients later, or modify the recipe, you can do so by clicking "ADD INGREDIENTS" from the Menu page.

4. The CONVERT function

Once you have a recipe started, the CONVERT function will convert the units of measurement for any ingredient in a recipe. Note that recipe items must be converted individually and that converting the units of one ingredient does not affect the units of the other recipe ingredients.

Once on the CONVERT page, select the recipe item that you want to convert by entering its item number from the recipe in the box that appears after the text "Convert the quantity of item..." Then select the units of measure you wish to convert the recipe item into from the drop-down menu. Then click the "CONVERT IT" button and the Recipe Calculator will convert the item into the new units of measure. When finished, click the "MENU" button to return to the Menu page.

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IMPORTANT: Each time a recipe is scaled, the Calculator rounds the quantities slightly when necessary. In this process, a small bit of data is lost, producing a rounding error. If a recipe is scaled once, this loss of information is insignificant. However, if a recipe is scaled multiple times, the errors compound and become larger. To maintain the accuracy of your mixtures over time, you should always create a scaled recipe from your *original* saved recipe. To save a copy of a scaled result, click the SAVE button and enter a *new* name in the dialog box to preserve your original recipe.

5. The SCALE function

When you are satisfied with your recipe, you may scale it to any size quantity that you wish to mix.

Proceed[®] System Recipe Calculator

SCALE THE RECIPE

Multiply the entire recipe by a factor of:

or

Scale the entire recipe so that item is exactly

ITEM QUAN UNITS PRODUCT

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To re-scale a recipe, click on the "SCALE" button on the Menu page.

You may scale the entire recipe by a constant factor which is useful if you simply want to double or triple the amount being mixed.

You may also scale the recipe by resizing the entire recipe to a defined amount of a single item. This option is mainly used in scaling up color recipes to gallon pails of Proceed textures, paints and Metallic Mediums. *Because Proceed gallons are filled to 115 oz to allow room for tint addition, it is necessary to scale color recipes such that the base material being tinted is 115 oz. Then, the Calculator will scale the tints and other ingredients to the exact amounts to be added to the pails.*

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Basic Decimal to Fraction

Conversions:

$$0.125 = 1/8$$

$$0.250 = 1/4$$

$$0.333 = 1/3$$

$$0.375 = 3/8$$

$$0.500 = 1/2$$

$$0.625 = 5/8$$

$$0.666 = 2/3$$

$$0.750 = 3/4$$

$$0.875 = 7/8$$

Useful Conversions

If you develop your formulas by volume, here are some approximate conversions to fluid ounces. If you do want to scale up a fluid formula, you must convert your teaspoon and tablespoon measures to ounces and then do a check mix, measuring as accurately as you can. Small measurement variations in sample formulas are magnified when scaled to a larger volume. For this reason we recommend weight rather than fluid measurement.

Basic Volume Conversions:

1 FL. Ounce is approximately 6 Teaspoons

1 FL. Ounce is approximately 2 Tablespoons

1 Cup is 8 fluid ounces

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