

DIYdye Core Color Test Kit Content and Instructions

As part of November's Disc Store box, you have received a Gateway Diamond Shaman dyeable disc and a DIYdye Core Color Test Kit provided by Dye Academy and DiscDyeing.com. We are excited for the opportunity to introduce you to the world of disc dyeing and provide a sample of the best disc golf disc dyes on the market from Pro Chemical and Dye. Check out [DiscDyeing.com](https://discdyeing.com) if you are looking for dyed discs, premium discs to dye, or dye kits in larger sizes with a variety of colors to choose from. Dye Academy also offers live disc dyeing classes at PDGA tournament so look for us in 2022 at an event near you.

Below you will find a description of what's in the kit and some safety tips, followed by more detailed instructions on how to dye your disc using several different dyeing methods.

What's in the Kit?

The DIYdye Core Color Test Kit contains 4 packets of synthetic dye powder, with 3g of dye in each packet. The colors provided are: Fire Red, Dandelion Yellow, Sonic Blue and Onyx Black. We have provided all three primary colors as well as black so you can create other colors by mixing the dyes together. For example, if you want orange you can mix Fire Red and Dandelion yellow; green can be created by mixing Dandelion Yellow and Sonic Blue; or you can create purple by mixing Fire Red and Sonic Blue. The dye in the DIYdye Core Kit will allow you to dye multiple shaving cream or glue bed dyes since both of those methods use very little dye powder. The pour method uses a bit more dye powder so there will be less dye left over and we recommend that you reuse the bed if you would like to dye multiple discs.

Safety

We want everyone to have fun while dyeing, so here are a few tips to do it safely.

- The dyes provided are not meant to be consumed in any way;
- We recommend wearing nitrile or latex gloves when handling the provided dyes and other chemicals used in the dyeing process;
- The dyes used to dye discs are fabric dyes and will dye clothes, carpets and even dining room tables or kitchen floors. Dye in a location where its ok if you make a mess;
- **Alcohol and acetone are highly flammable**, can be hazardous if fumes are inhaled, and evaporate near room temperature. Care should be used to store these chemicals before using a torch or heat source to heat a bed;
- Any utensils, cups or pans used for dyeing should not be used for cooking or consuming food (even after cleaning). We recommend either disposable items or used items from a resale store which can be dedicated to use for dyeing;
- We do not recommend disposing of leftover glue or floetrol into sinks for both environmental and plumbing reasons;
- If you are using heat to dye a disc, we recommend keeping the temperature of the disc to 120 degrees (f) or less;

GLUE BED INSTRUCTIONS

The glue bed method uses clear glue as the bed, applies dye mixed with acetone on top of the glue using droppers, and then rakes the glue with a skewer to layer colors and make intricate patterns.

Required Supplies:

- Cleaned dyeable disc;
- Clear glue – Clear school glue can be found at craft stores (JoAnn Fabrics, Michael's, Dick Blick), school supply stores and even local Big Box stores (Walmart, Target). You need enough glue to fill the bottom of the bed you are using so that the disc will not bottom out (approx. 12-16oz). Fortunately, you can reuse the glue after you have dyed a disc with it. The dye bonds to the glue and you can reuse it for another disc without the original dye affecting the second disc;
- Acetone (to mix with the dye);
- Powdered Dye for plastic/synthetic fabrics such as the included Pro Chemical and Dye DIYdye Core Color Test Kit;
- Small Glass containers with lids to mix/store acetone and dye;
- Plastic or glass eyedropper(s);
- Wooden Skewers or toothpicks;
- Ultimate disc, 9+" pie pan or round dish for bed;
- Plastic wrap to place in bed to make cleanup easier (if not reusing glue); and
- Kitchen or propane Torch to pop bubbles (optional).

Method:

1. Clean your included Gateway Diamond Shaman well with soap and hot water. You can also scrub it with a very wet magic eraser to help remove any silicone residue from the disc (dry magic erasers will scratch a disc);
2. Mix 2oz of acetone and approximately ¼ tsp of dye in glass containers with lids. You want the dye to mostly dissolve but there will be a small amount of powder left in the bottom. Acetone is flammable, will eat through certain types of

plastic, and evaporates quickly so glass jars with metal lids are preferred (mini mason jars work as will glass bottles with dropper lids);

3. Fill the bed with enough clear glue to cover the bottom of the bed and have enough medium so the disc will not bottom out – approximately 12 oz. If you don't plan on reusing the glue, you can put plastic wrap down in the bed before you add the glue and it makes clean up much easier, just pull the plastic wrap out and toss;
4. Pop any bubbles you see either with a toothpick or you can use a kitchen torch to lightly torch the bed and pop any bubbles on the surface. **IMPORTANT** - Do this before applying the dye to the bed or the acetone could ignite and close/remove any acetone containers before torching;
5. Apply the dye/acetone mix to the bed using droppers to apply drops of dyes in whatever pattern you desire. We recommend using a separate dropper for each color or cleaning the dropper with acetone between colors to avoid contamination. When applying the dye be careful to not suck up the powder remaining at the bottom of the jar with your dropper as this will leave chunks of undissolved dye in your bed;
6. Use a toothpick or skewer to make patterns in the bed and mix colors for interesting effects. You can also rotate the bed instead of moving around the disc. Sometimes less mixing is better, but you can go with any mixing pattern that makes you happy;
7. Place the cleaned disc into the bed. Hold the disc above the glue top down with your fingers inside the rim pulling outward. Place the disc in at a slight angle so one edge touches first and then gently lay the rest of the disc into the bed to avoid air bubbles. You do not need to press the disc into the bed as it will settle over time;
8. Let the disc rest in the bed for 24-48 hours before pulling. Longer set times will increase saturation slightly. 24 hours works well for Gateway's Diamond plastic

and most premium plastics but harder plastics such as Champion, Z, or Lucid/Opto/VIP can benefit from longer set times;

9. After your 24-48 hour set time, pull the disc from the bed and wash well with hot soapy water. We do not recommend disposing of your leftover glue bed down a sink. Dispose in a trash can or if you let the bed sit for a week or two you will have a glue frisbee to play with once it dries out. Will it hyzer? :-D

SHAVING CREAM BED INSTRUCTIONS

The shaving cream method sprinkles dye onto a mound of shaving cream and places the disc face down on the mound, dyeing as it slowly sinks over 4-6 hours.

Required Supplies:

- Cleaned dyable disc such as the included Diamond Shaman;
- Shaving cream (cheapest you can find – dollar store Barbasol works great!);
- Ultimate disc or a 9+" diameter baking pan/pie plate for a bed (larger beds are better for shaving cream as the shaving cream will collapse over time and can overflow);
- Ruler or straight edge so help shape shaving cream mound;
- Dish soap;
- Powdered Dye for plastic/synthetic fabrics such as the included DIYdye Core Color Test Kit; and
- Q-tip, paint brush, henna cone, or other tool to apply powdered dye.

Method:

1. Clean the disc well with soap and hot water. You can also scrub with a wet magic eraser to help remove any silicone residue (dry magic erasers can scratch a disc);
2. Make a mound of shaving cream that fills the bed (approximately ½ to a full can of shaving cream), squirt a few drops of dish soap and add a tablespoon of water to the shaving cream and mix it all together to make it smoother and easier to shape;
3. Use the ruler to form the mound of shaving cream into a cone. The taller the mound, the more movement as the disc sinks, creating a more pronounced burst effect;
4. Apply powdered dye to the shaving cream cone using a Q-tip, paint brush, henna cone or anything that will allow you to control how much dye is applied onto the mound. Dip your utensil into the dye powder and then gently tap it about 6" over the bed allowing the dye powder to lightly coat the shaving cream mound. Use as many colors in whatever pattern you desire. You want to cover most of the cone but also apply the powder lightly enough to still be able to see individual grains of

5. dye. You should not need to use much dye for this method and the provided 3g packets will allow you to dye at least 5 discs per packet with this method;
6. Center the disc over the mound and press it down slightly so that the disc is centered on the shaving cream and not going to slide off to one side. The disc will sink into the shaving cream over time which creates the burst pattern on the disc. You can also twist the disc as you push it into the shaving cream for a cool twisty-zoomy effect;
7. Allow the disc to set in the bed undisturbed for 4-6 hours (longer will not hurt) before pulling it, but do not let the disc sink all the way and hit the bottom of the bed as this can blur your design. You should also be aware that some of the shaving cream will mush out around the sides of the disc, this is normal and helps with the zoom effect. After pulling the disc out of the shaving cream wash well in warm soapy water and enjoy your new dye!!!!

FLOETROL POUR INSTRUCTIONS

Floetrol beds use techniques developed for acrylic paint pouring to layer colors and create unique cell designs on discs.

Required Supplies:

- Cleaned dyeable disc such as the included Diamond Shaman;
- Floetrol paint medium (Found in stores like Home Depot/Lowes, ~\$13/gallon);
- Silicon oil (optional) helps to enhance the production of cells when you add a few drops to each color before pouring. Can be found at automotive supply or art stores;
- Denatured alcohol – use 3ml per color to help dissolve the dye before mixing. 100% grain alcohol also works;
- Ultimate disc, 9+" frisbee, plate or round pan to use for a bed;
- Powdered Dye for plastic/synthetic fabrics such as the included Pro Chemical and Dye mini-kit;
- Solo cups for mixing dye and doing flip cup or open cup pour or any 16-20 oz cup;
- Plastic wrap or edged tool for swiping if using the swipe method;
- Skewers for raking/manipulating the bed;
- Torch for popping bubbles and creating cells; and
- Heat lamp - 250w incandescent heat lamp placed 2' above bed;

Method:

1. Clean the disc well with soap and hot water. You can also wipe with a very wet magic eraser to help remove any silicone residue from the disc (dry magic erasers will scratch a disc);
2. Mix Dye. For each color you are going to use, fill a solo cup with enough floetrol so that you have 12-16 oz in total. For 3 colors use 4-5 oz in each cup (4 color, 4 oz each). You can also use plain floetrol as a fifth color. Add ½ tsp of dye to each cup and 3ml of denatured alcohol to help dissolve the dye and then mix well.
3. Add 2-4 drops of silicon oil (<½ second spray if you're using a pressurized can) to each cup of dye. Do not over stir when mixing the silicon oil in.

4. Pour the medium into the bed. Below are three different styles of pours you can try.

- a. Flip Cup – Alternate pouring small amounts of each color into an empty solo cup until you have 12-16oz of dye/floetrol mix in the cup. It helps to tilt the cup being filled so that the colors layer as you add them instead of mixing. Place the bed upside down over the cup and hold tightly as you flip it upside down keeping the cup in contact with the bed the entire time to avoid spilling. With the cup now upside down inside the bed, slowly lift the cup and move it around the bed as the dye/floetrol mix releases it will form cells and patterns.
- b. Open Cup – Take a solo cup and cut the bottom off the cup with a pair of scissors. Add a small amount of plain floetrol to the bed (enough so that you can set the cup upside down on top of the floetrol (2-3 oz) and it extends beyond the edges of the cup. With the cup sitting upside down in the bed, pour your dye/floetrol mix into the open cup through the cut off bottom of the cup, alternating colors. As you pour the colors into the open cup the dyes will layer under each other and will eventually cause the cup to lift off the bottom of the bed. The cup will float as you add more dye and the alternating colors will create cells in your finished dye. Once all the dye is added (or the bed is close to full) carefully lift the cup and you can use one edge to swipe across the area where the cup was sitting.
- c. Swipe – Pour the colors of dye you want to use randomly in the bed, layering them on top of each other. Once all the dye is in the bed, take a piece of plastic wrap and place it over the bed allowing the plastic to make contact with the surface of the dye. Then slowly lift up and pull the plastic wrap towards you. It helps to have a trash can between you and the bed to pull the plastic wrap into. You can also swipe with any straight edged object by lightly dragging it over the surface of the dye, pulling colors over one another and creating cells in the process.

5. Torch the bed (Optional). To create additional cells and pop bubbles it helps to heat the bed slightly with a propane or butane torch. You want to keep the torch moving so you don't overheat the bed and cause the dye on the surface to solidify. This step can be skipped if you don't have a torch or if you have a heat lamp you can set the bed under the heat lamp for 10 minutes before putting the disc in.
6. Carefully Place disc into bed. Holding the cleaned disc upside down by pulling out with your fingers inside the rim, carefully lower the disc onto the dye. It helps to lower one edge first at a slight angle and then allow the rest of the disc to lower into the bed to avoid bubbles. Once the disc is in the bed do not lift it back out. A little movement is ok and will not affect the pattern on the disc. You do not need to press the disc into the bed as it will settle over time;
7. Heat the disc and bed (Optional). Heat helps to improve the ability of the disc to absorb dye and will shorten the dyeing process and also improve color saturation. The best method for heating floetrol beds is to use a 250w heat lamp placed 2 feet above the disc/bed for 90-120 minutes. Harder plastics and translucent plastics such as lucid, Z and champion will benefit from more time while Star, Diamond, Fuizion/Gold/Tournament/K1 will saturate well in 90 minutes. As a general rule, you do not want to heat the disc much above 125 degrees. If you do not apply heat to the bed, let the disc sit for 24 hours before pulling it.
8. Remove, wash and reuse bed. Once the disc is ready, carefully move the bed to a sink where you can clean it off. Remove the disc by lifting it out of the bed by the rim and pulling out and up. Wash the disc well with soap and water. You may need to use a sponge, cloth or wet magic eraser to remove dye that dries around the edge of the disc due to heat. When removing the disc from the bed you will notice that a new pattern is created by pulling the disc out. Often you can create several great dyes from reusing these beds. You can put another disc in right away or you can manipulate the bed by swiping, swirling (slowly tilt the bed so the dye inside swirls) or raking with a skewer before placing another disc in.