

Instructions

Art-Nr: 5950 Gradation lacquer yellow for blue color cast-free white LEDs

1. Safety precautions:

- These products are not suitable for small children.
- The lacquer and the thinner bear the warning „**highly inflammable**“.
- When working with the products, refrain from smoking and stay away from fire and other heat sources.
- Do not inhale, eat or drink while working with the products.
- Always provide a good ventilation at your working place.
- Stains cannot be removed from clothing.
- After finishing, always wash your hands and clean your workplace.
- Please deposit leftovers at public waste collection sites. Usually there the liquids are decanted into a larger collection tank, so that you can keep your small glass bottles.



figure 1: Gradation lacquer and thinner

2. The product can be seen in figure 1. These instructions are part of the product. Please retain them well.
3. Hold the LED you want to gradate between your fingers or with tweezers. Dip the brush into the lacquer, but not too deeply. Apply the lacquer to the LED in a thin layer (see figures below). The lacquer will be dry after only a few minutes. If you have applied too much of it, this is no problem since the lacquer doesn't damage the electronics and can be removed easily (see figure 2).
4. Do not dip the brush too deeply into the lacquer (figures on the right). When working with the lacquer, always put some paper tissue besides your working place for cleaning your brush or wiping away spilled liquids. For cleaning your brush, put some thinner on a tissue and wipe the brush off. If necessary, you can also dip the brush directly in some thinner. Only use the thinner provided together with the lacquer. You can also wipe off the brush handle with the tissue. When cleaning the brush in a glass with thinner, do not push the brush too hard on the bottom of the glass – some of the fine hair might break. Also, when wiping off the brush, always do it only in one direction in order to prevent the hair from damage.
5. We recommend the Habico artist's brush with red marten hair in the smallest available sizes 5/0 or 4/0.
6. The lacquer can be thinned with the included thinner as much as desired. If the result is too thin, leave the bottle open for some hours, so the thinner can exhale from the lacquer and the lacquer will get thicker again. To see the progress, just draw a small mark on the outside of the glass.
7. After finishing, clean your tools and working place, close the bottles well and store them in a cool place away from sunlight.
8. Usually it is sufficient to apply the lacquer with a medium thickness. But when desired it can just as well be applied more often, much thicker or much thinner. Try it out and you will quickly find out the way it works best for you. As described above, the lacquer can always be easily removed using the thinner. Since the lacquer dries very fast, the gradated component can also quickly be built into its original place in order to see the change of the color of the light in reality. Have a look at the figures on this page – they often can explain more than a thousand words.



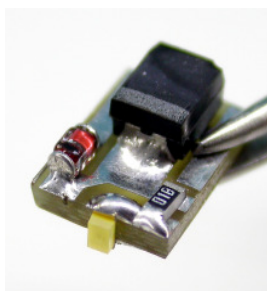
figure 2: This is how you clean a component.



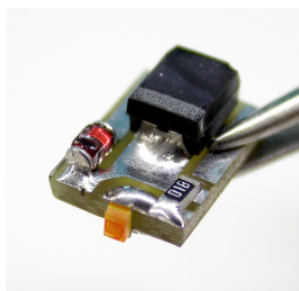
The ideal brush:
Habico red marten 5/0

Now enjoy gradating your white LEDs, that their light will soon resemble the shine of a yellow light bulb.

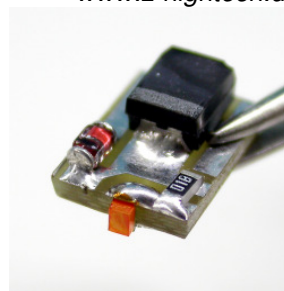
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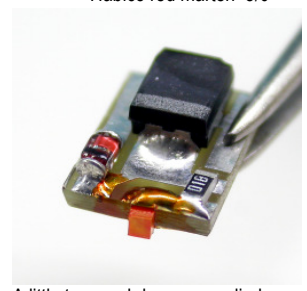
This is how the white LED looks originally



Like this it looks with a little lacquer



The lacquer once applied all around – like this it is perfect.



A little too much lacquer applied – but it doesn't do anything to the electronics