



Sculptor Information

Kneadatite® Blue/Yellow®

Blue and yellow make “green”

Kneadatite Blue/Yellow epoxy putty, nicknamed “Green”, “Green stuff” or “Duro” by sculptors, can be used as a modeling and sculpting compound for creation of models and prototypes. Kneadatite Blue/Yellow cures at room temperature. The base (yellow color) and curing agent (blue color) are of contrasting colors so that, when kneaded together to a uniform color, they become one color (green), indicating complete mixing.

Once cured, Kneadatite Blue/Yellow can be carved, filed, drilled, sawed, screwed and painted. It won't shrink or pull away, nor will it corrode or rust. It resists chemicals, water and temperature extremes and withstands up to 4 vulcanizations in the mold making process.

Basic uses for sculptors

Miniature figure sculptors and modelers use Kneadatite Blue/Yellow for a number of specific uses:

- To fashion models used to make the molds for miniature pewter figures (15 mm to 12 mm scale).
- To fill gaps that appear in “built-up” kits.
- To customize pieces with additional parts not included in model kits.
- To make original sculptures.

Benefits

- Extremely smooth, non-grainy texture.
- Long work life (1-1/2 to 2 hours).
- Ability to hold fine detail.
- Adheres well to almost any surface (excellent on vinyl).
- Slight flexibility after cure; doesn't snap under stress.
- Can be mixed at different ratios to achieve various properties.
- Withstands high heat (325°F / 163°C) and up to 2,000 pounds (0.9 kg) of pressure during the vulcanizing (mold-making) process.
- Withstands up to four vulcanizations.

- “Master” is retained and ready for resculpting.

Bars vs. tape

Kneadatite Blue/Yellow Epoxy is available in two forms: as two 3 1/2” (8.9 cm) bars (4 oz / 114 g total weight) in a reusable plastic tube with end cap, and as a



1” x 36” (25 mm x 91 cm) long roll, 3.5 oz (100 g) in weight, in a handy, reusable plastic box.

Wear impermeable gloves when mixing or handling uncured material. To use the bars, standard mixing proportions are 1 part curing agent (blue) to 1.5 parts base (yellow).

Any length of the tape contains the appropriate mixing proportion of the base to the curing agent. To use the tape, simply cut off across the tape so you have the same length of each color.

Mix the two components together to a uniform green color before using. For best results, use damp fingers for easier mixing and application. Kneadatite Blue/Yellow has a mixed work life of 1 1/2 to 2 hours. It is suggested that you mix only the amount needed to complete 1 hour of sculpting. It is very easy to get caught up in shaping and working the mixed putty so that the excess mixture becomes unworkable while you're sculpting. Kneadatite Blue/Yellow will adhere to itself, so you can mix and apply more putty later.

Apply to the surface within 1 hour of mixing and force into cracks or holes. Remove excess material before hardening begins, preferably with a tool moistened with water.

Extra tips

Experienced sculptors have found that mixing proportions can be adjusted for various sculpting properties. Using more Blue than Yellow results in a faster, harder cure, excellent for building understructure. Conversely, using more Yellow

than Blue results in a slower and softer cure, useful for detail work.

An added bonus to sculptors is Kneadatite Blue/Yellow's original purpose: as an industrial-strength polymer compound. The same qualities that make Kneadatite Blue/Yellow an excellent sculpting medium also make it ideal for repairs and customizations around the house or workshop. Although it's long work life does not lend itself to making emergency repairs, Kneadatite Blue/Yellow is quite useful in molding missing knobs or parts, reinforcing or restoring areas damaged by rust, filling small auto-body dents, repairing stripped screw holes, etc.

For those occasions where you need the application to be removable, such as molding a missing knob around a screw, be sure to use a lubricant or release agent like petroleum jelly or baby oil on the screw threads when molding the knob around the screw. This will prevent Kneadatite Blue/Yellow from adhering permanently to the screw.

Need to create a duplicate ornamental piece? Use Kneadatite Blue/Yellow to create a mold. First, apply a lubricant or release agent to the surface of the original piece, then apply mixed Kneadatite Blue/Yellow. Be sure to cover the entire surface of the original piece with lubricant or release agent to prevent the mixed putty from becoming part of the original. Once hardened, remove the mold and use it to make duplicate pieces with more mixed epoxy putty, using lubricant or release agent on the mold surface and filling with mixed epoxy putty. Once hardened, remove the part from the mold and paint, sand, etc., as needed to match the original.

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