

Hydrogel® N Mold Compound

Non-Toxic — Safe For Body Contact

DESCRIPTION: Hydrogel® N is a dry, white powder that when mixed with water at a 3 parts water to 1 part Hydrogel N by weight ratio (approximately 1 water to 1¼ Hydrogel N, by volume) yields a creamy mix with a 5-minute working time. Working time may be extended using the optional liquid retarder described below. Demolding can be done, with care, 2 to 3 minutes after mix can no longer be worked.

MODEL PREPARATION: Hydrogel N can be poured on most surfaces with minimal preparation, but a small test cure should be made prior to use to be sure that Hydrogel N releases cleanly and does not damage water sensitive surfaces. A thin coat of petroleum jelly or Pol-Ease® 2300 Release Agent will seal most questionable surfaces adequately.

MIXING AND CURING: Weigh or measure proper amounts of Hydrogel N powder and room temperature water. Mix together rapidly, but avoid whipping in air. A turbo mixer on a variable speed drill is recommended. Thicken mix with more powder or thin with more water, as needed. Apply to surface with a flowing motion, pushing air ahead of material. Optional liquid retarder may be premixed with water to extend working time.

Hydrogel N bonds to itself if the previous mix is not completely gelled. Thus, a large mold requiring more than one mix should be made by mixing a series of mixes within 5 minutes of one another. Wiping a saturated solution of water and baking soda (sodium

FEATURES
<ul style="list-style-type: none"> • Easy to use, just add water • Good reproduction of fine detail <ul style="list-style-type: none"> • Non-toxic, acceptable for body casts • Early strength for fast demold • Variable working time • Low cost

bicarbonate) on gelled Hydrogel N will aid bonding of a fresh mix to gelled material. Food color added to the bonding solution aids knowing where it has been applied. Continue layering Hydrogel N as needed to make a ~3/8-inch thick blanket mold. In the final layer of wet Hydrogel, press “teased” cotton (absorbent cotton rolls from pharmacy) evenly over the entire mold surface and allow to gel. Remove excess cotton by pulling gently, leaving a thin layer of exposed fibers. As soon as Hydrogel N is firm, mix and apply a plaster mold shell using bandages, cheesecloth, or hemp embedded in the plaster. The exposed cotton fibers in the mold will bond to the plaster shell helping to keep the mold attached. When the plaster shell is set, remove the Hydrogel N mold/plaster shell. For best dimensional stability, make a positive casting immediately.

USING THE MOLD: Plaster or waxes below 212°F may be poured in Hydrogel N molds. Castings should be made in freshest possible molds for best results. Hydrogel N molds shrink as they dry. Molds may be kept useable in plastic bags or sealed containers for up to a few days. Molds should then be discarded

SAFETY: Before use, read product label and Material Safety Data Sheet. Follow safety precautions and directions. Handle Hydrogel N carefully to avoid dust generation. Wear a dust mask. Avoid eye contact. Hydrogel N is not for human consumption or use against mucous membranes. Keep skin contact as brief as possible. Prior to placing Hydrogel N on hair, slick down hair with petroleum jelly or cholesterol hair conditioning cream.

STORAGE LIFE: At least six months in unopened containers stored at room temperature (60-90°F).

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PACKAGING		
Product	Total Unit Weight	Container
Hydrogel® N	0.5 lb	1 qt
	2.5 lb	1 gal
	12.5 lb	5 gal
Retarder Solution	2.0 lb	1 qt

LIQUID RETARDER (OPTIONAL)	
% Retarder in Water	Approximate Working Time
0	5 min
3	7 min
6	8 min
9	10 min