

Example of CYTOP curing conditions

Precautions for handling

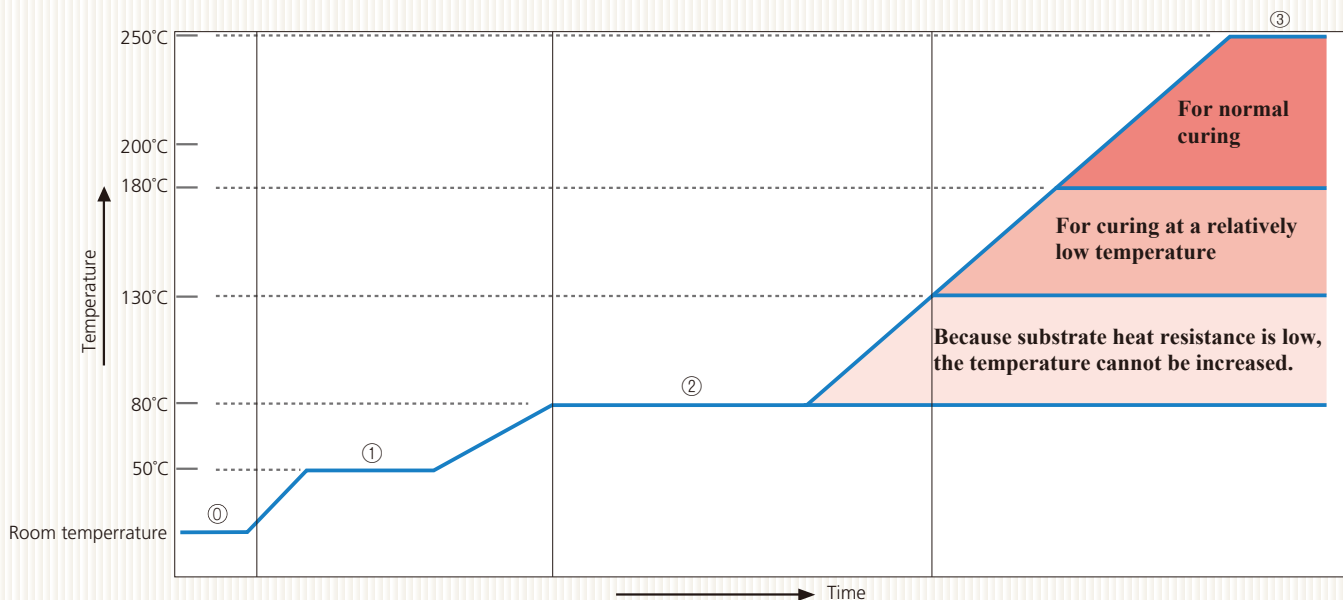
Please be sure to read MSDS before using this product to ensure safe handling.

CYTOP has different recommended baking conditions depending on the part number.

CYTOP part number	Solvent	Characteristics	Example of baking conditions	Example of recommended temperature conditions for final baking
100 series (for Dip coating) Example: CTL-109AE } CTX-109AE } → CT-SOLV100E CTL-107MK } → CT-SOLV100K		Solvent boiling point is 100°C. Solvent is easily volatilized at room temperature. Solvent viscosity is low.	Drying at room temperature: 5 to 30 min. ↓ Final baking: 60 min.	80°C or more 200°C or less
800 series (for Spin coating) Example: CTL-809A CTX-809A CTL-809M	CT-SOLV180	Solvent boiling point is 180°C. Solvent is hardly volatilized at room temperature. Solvent viscosity is high.	Drying at room temperature: 5 to 30 min. ↓ Pre-baking: 10 to 60 min. at 50°C to 100°C	180°C or more 250°C or less

- Optimum baking conditions vary depending on film thickness, substrate, and process.
- The customer should study optimum baking conditions (temperature and time).
- Because the solvent is completely volatilized to improve adhesion with the substrate, it is recommended to perform final baking at as high a temperature as possible.
- If high-temperature baking is performed with solvent remaining, the coating surface may be rough (orange peel) or the uneven film thickness may occur (particularly with 800 series).
- If the coating surface becomes rough or if the film thickness is uneven, reduce prebaking temperature, extend baking time, or bake gradually as shown in the figure below. Take action to ensure the solvent dries slowly.
- The conditions are the same for a hot plate or oven.

* Recommended silane coupling agent $\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_2\text{CH}_3)_3$ (3-Aminopropyltrimethoxysilane)
 “KBE-903” by Shin-Etsu Chemical Co., Ltd.
 “SILA-ACE S330” by Chisso Corporation



	①	① Prebaking (degas)	② Prebaking (removal of solvent)	③ Final baking
Drying at room temperature		The purpose is to remove gas. If it is difficult to remove bubbles in the resin, extend the time of this process.	The purpose is to remove solvent. Drying occurs from the resin surface. If this process is short, a certain amount of solvent will remain in the resin.	This process is necessary to improve adhesion with the base material.

100 series	5 to 30 min.	Not required.	Not required.	80 to 200°C x 30 to 60 min.
800 series	5 to 30 min.	50°C x 10 to 30 min.	80°C x 30 to 60 min.	180 to 250°C x 30 to 60 min.

* If the film is thin (5 μm or less), “① Prebaking process” is not required.