# Treatment method of CYTOP primer "silane coupling agent"

**Precautions for handling**

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

**When CYTOP is applied to an inorganic substrate such as glass or a silicon wafer, adhesion can be increased with the silane agent treatment described below. An example of the silane agent treatment is as follows.**

**Example of silane agent treatment (spin coating) on inorganic material**

## 1 Procedure

Mixing of silane agent ① → Silane agent coating ② → Rinse with deionized water ③ → Drying ④ → CYTOP coating ⑤ → Baking ⑥

## 2 Detailed explanation of each process

① Mixing of silane agent

- Mix ethanol 95 and deionized water 5. - Fluid A
- Add amino silane at the ratio of 0.1 to 0.01 to Fluid A 100, and stir it. - Fluid B
- Leave Fluid B standing for at least 12 hours.

* Amino-based silane coupling agent: $H_2NCH_2CH_2CH_2Si(OCH_2CH_3)_3$
"KBE-903" by Shin-Etsu Chemical
"SILA-ACE S330" by Chisso, etc.

② Silane agent coating

- Example of silane agent spin coating conditions
  500rpm for 15 seconds + 4000 rpm for 20 seconds

③ Rinse with deionized water

- Rinse the silane-treatment surface with deionized water.

④ Dry by air blowing

- Perform nitrogen air blowing for one minute or more for drying.

⑤ CYTOP coating

- Coat the CYTOP.

⑥ Baking

- Example of baking conditions
  30 to 60 minutes at 80°C -> 30 to 60 minutes at 180 to 250˚C

## 3 Precautions

- It is recommended to mix the silane agent each time the product is used.
- Be careful to ensure that the base is not deformed due to baking.

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