

Treatment method of CYTOP primer “silane coupling agent”

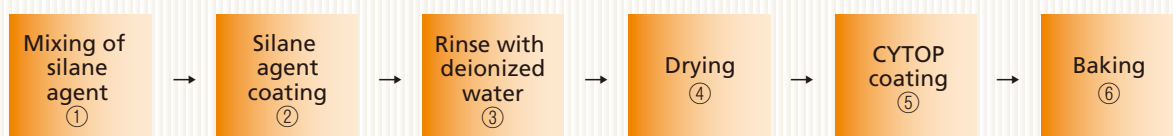
Precautions for handling

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



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: $\text{H}_2\text{NCH}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_2\text{CH}_3)_3$
“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.