

**QZ3289****Polyimide Adhesion Promoter for  
Durimide® Polyimides****Adhesion Promoter Preparation:**

The adhesion promoter solution is prepared by mixing one part adhesion promoter concentrate (QZ3289) with 9 parts of Diluent. The Diluent is a mixture of 95 parts of Isopropyl Alcohol (IPA, 2-propanol) and five parts of filtered deionized water.

Do not store this solution in a glass container, as the adhesion promoter will deposit on the glass, changing the concentration of the solution. The diluted adhesion promoter is stable at room temperature for 5 days.

Adhesion Promoter Concentrate, QZ3289, catalogue #850948 can be purchased through FFEM in 125ml quantities. This solution has a one year shelf life at room temperature.

The Diluent can be prepared by mixing 210ml of filtered deionized water with 4 liters of IPA. (This is a 95/5 volume to volume ratio, IPA/DI water) This solution is very stable at room temperature but should be protected from all sources of ignition. It can be stored in either glass or plastic. Consult with a qualified health and safety professional to insure that the appropriate precautionary measures have been taken prior to preparing this solution.

With adhesion promoters of this type, the goal is to apply a very thin layer, theoretically a monolayer, of adhesion promoter to the surface of the substrate. Application of too thick a layer can result in loss of adhesion. The formulation described herein has been established to yield coatings of the required thickness when prepared and process as described.

**Preparation Summary**

**Diluent:** Mix 210ml of DI water with 4 liters of IPA (5/95 vol/vol, 6.2/93.8 w/w) This solution can be stored in glass or plastic containers.

**Adhesion Promoter:** Mix 1 part QZ3289 with 9 parts Diluent. Let solution sit 1 hour before use. Store the final diluted adhesion promoter at room temperature in a sealed **plastic** container. Discard after 5 days.

**Wafer process**

Flood surface of wafer with ample amount of prepared adhesion promoter

Ramp to 3000 - 4000rpm

Spin dry 20 – 30 seconds

Optional Bake at 100-120°C for 20 seconds.

Bake is recommended for porous substrates or if relative humidity in fab is greater than 30%.

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