

# *FPD Manufacturing Support Technology*

## *Introducing Antistatic Technology*

### *BS-ET and COSMO COAT*

*BS-ET* is a New Special Chemical Etching treatment

*COSMO COAT* is a Semi Conductive Anodized Aluminum

*Kumabou Metal Co., Ltd.  
Process Technology Section*

## *Antistatic Technology with BS-ET and COSMO COAT*

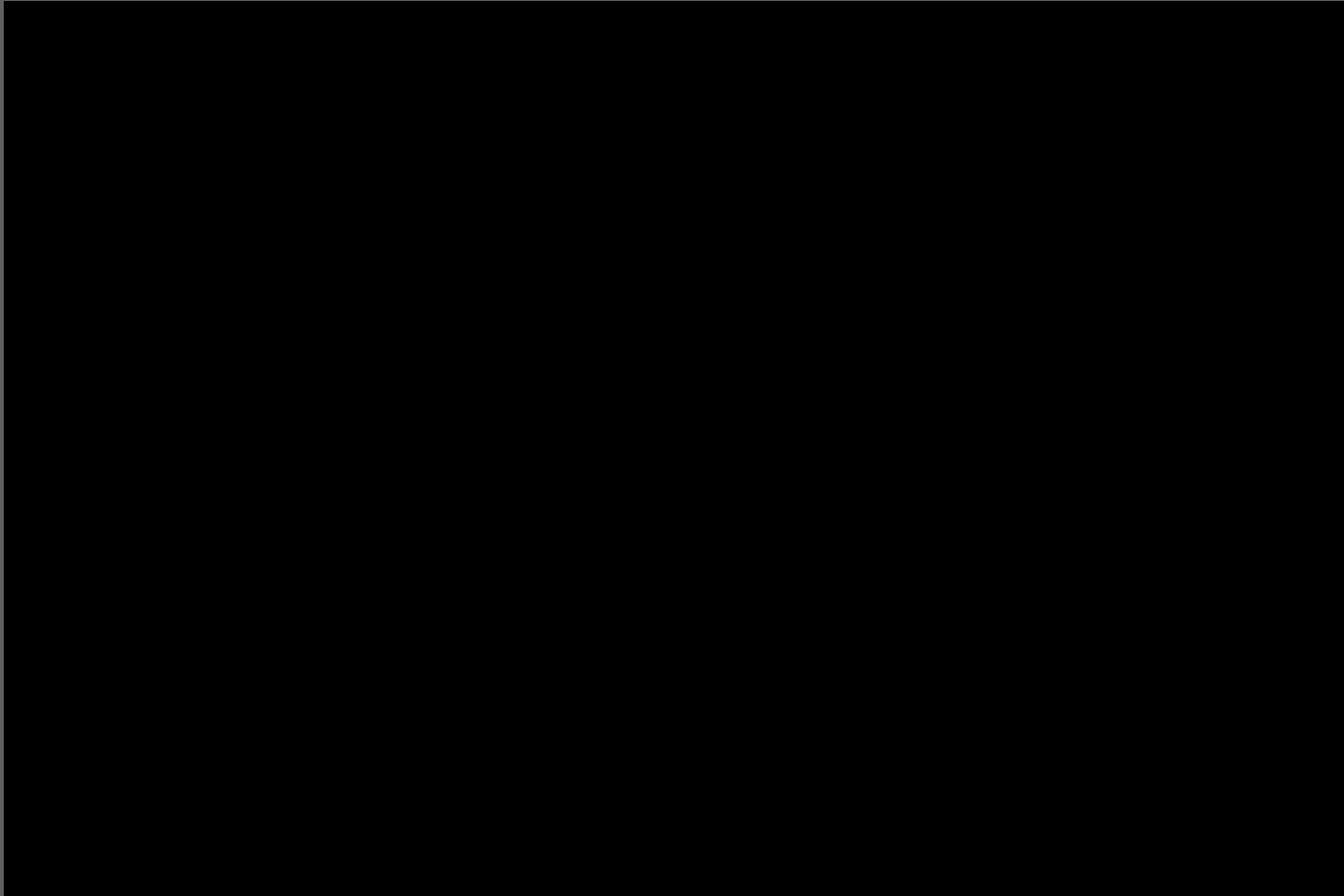
*We have developed BS-ET and COSMO COAT with an Aluminum alloy material which is used in FPD Production Equipment.*

*We developed **BS-ET** & **COSMO COAT** for the purpose of ;*

- ① Faster adhesion time to glass*
- ② Improved adhesion to glass*
- ③ Prevention copying milling scars Resist*
- ④ Prevention occurrence Static Electricity*
- ⑤ Reduction Static Electricity*

# *Antistatic Technology with BS-ET and COSMO COAT*

① *Faster adhesion time to glass*



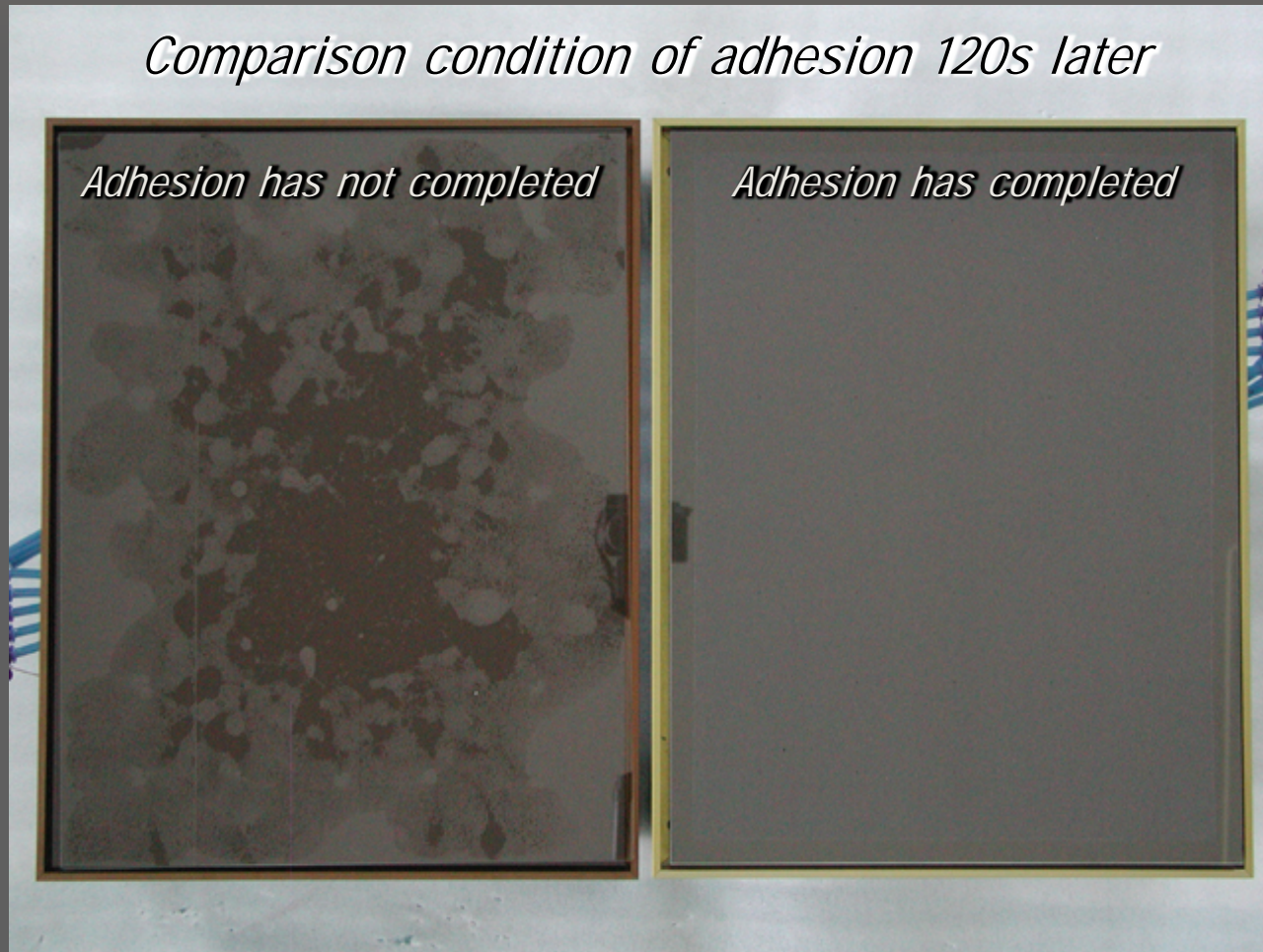
*Left : without BS-ET*

*Right : with BS-ET*

# *Antistatic Technology with BS-ET and COSMO COAT*

## *② Improved adhesion to glass*

*Comparison condition of adhesion 120s later*



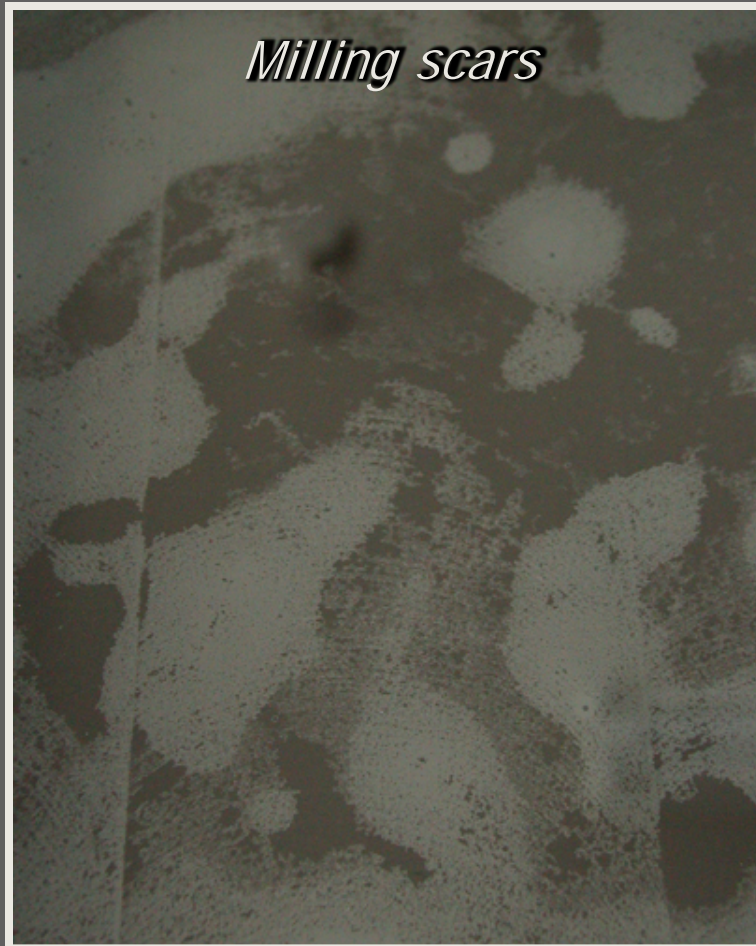
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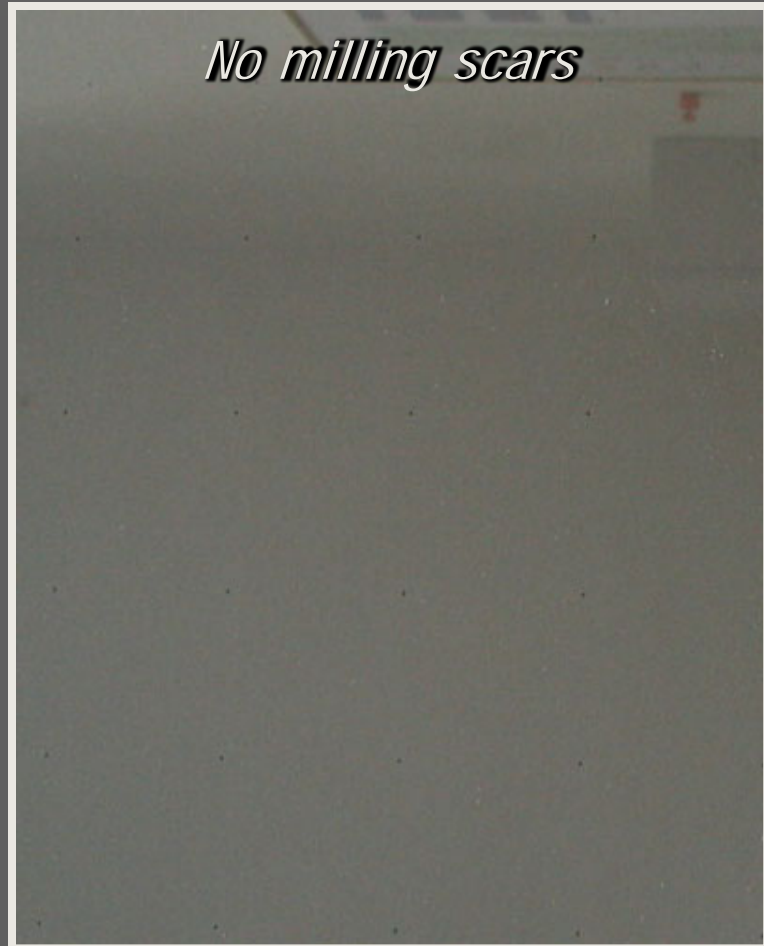


# *Antistatic Technology with BS-ET and COSMO COAT*

## *③ Prevention copying milling scars Resist*



*Left : without BS-ET*



*Right : with BS-ET*

# Antistatic Technology with BS-ET and COSMO COAT

## ④ *Prevention occurrence Static Electricity*

*BS-ET* reduces direct contact with glass.

*So It's able to control :*

- A) Static Electricity from contact*
- B) Static Electricity from separation*

*BS-ET treatment controls*

*Static Electricity from occurring*

# Antistatic Technology with BS-ET and COSMO COAT

## ⑤ Reduction Static Electricity

*COSMO COAT* gives Semi Electrical Conductive properties to passivity Anodized Aluminum.

*Volume Resistance* :  $10^{6-8} \Omega$

*Surface Resistance* :  $10^{8-10} \Omega$

*COSMO COAT* is Semi conductive, not conductive.  
So, It's enable FPD Production Equipment to work

*Gentry reduce Static Electricity*

# *Antistatic Technology with BS-ET and COSMO COAT*

*Our suggestion ;*

- ① Prevent Static Electricity with **BS-ET**  
and*
- ② Reduce Static Electricity with **COSMO COAT***

*Maximum Weight 2000 kg*

*Maximum Size 3800 × 3000 × 200 mm*

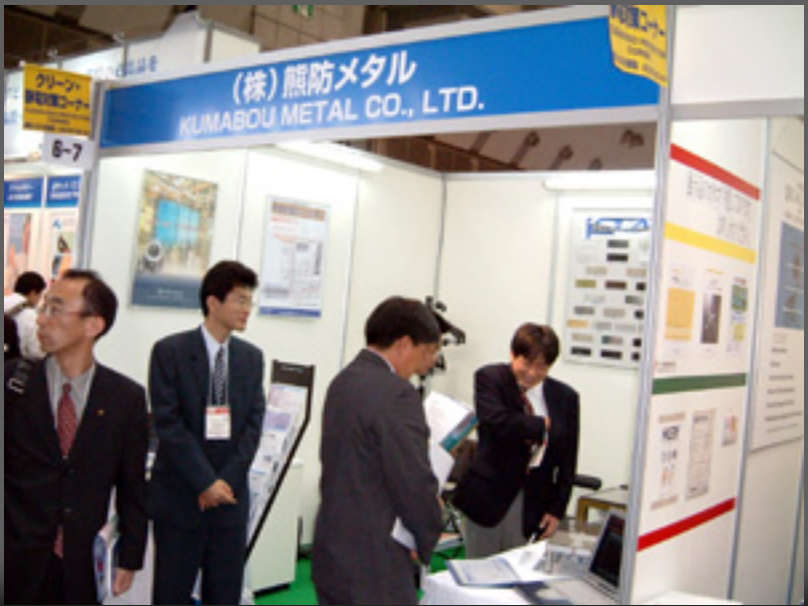
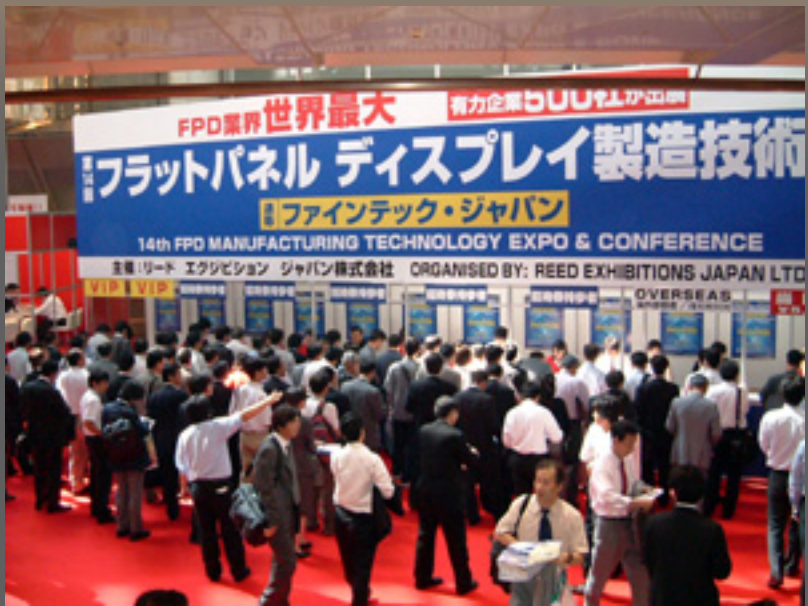
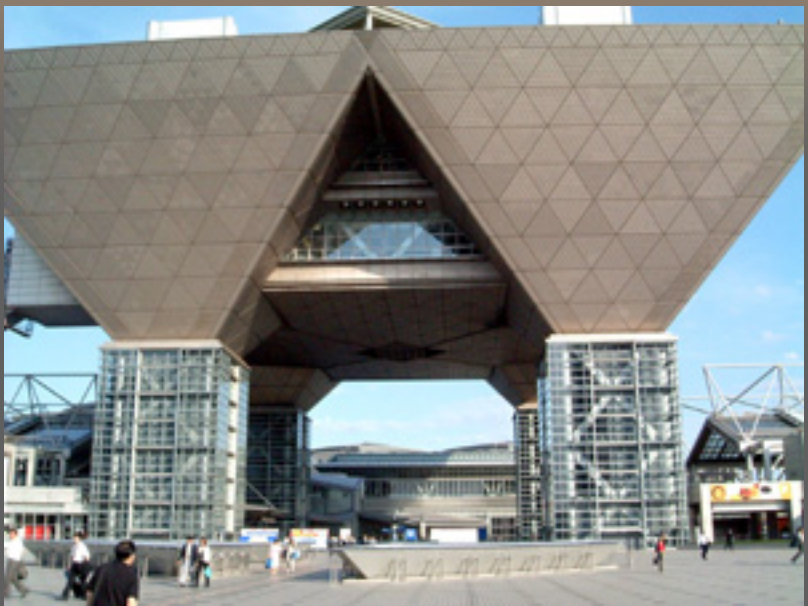
*As a result of using **BS-ET** and **COSMO COAT***



*The glasses will be protected  
from Static Electricity*



# *FINETECH JAPAN @ Tokyo Big Sight, Japan*



## *Antistatic Technology with BS-ET and COSMO COAT*

*If you have any questions. Please feel free to ask us. We think E-Mail is much better. We hope that we will see again. Thank you very much.*

*Sincerely yours.*

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*Fin . . .*