

PHOTOPOLYMER RESIST STRIPPER PRS-11

PRODUCT DESCRIPTION:

Photopolymer Resist Stripper, PRS-11, is formulated for removing aqueous processable dry film photoresist and alkaline processable screen inks.

PREPARATION:

PRS-11 is supplied as a clear, pale, straw colored liquid concentrate in 55-gallon containers, to be diluted 1:3 with water. Prepare working strength solution in the equipment to be used: CONVEYORIZED SPRAY SYSTEMS, SOAK TANK, or HOLDING TANK.

Batch in gallons X .25 = Concentrate required by volume.

Batch in gallons X .75 = Water required by volume.

The prescribed volume of water should be placed in the equipment sump or soak tank (preferable hot water 120° to 160 °F) then add the prescribed volume of concentrate. Mix solution thoroughly with recirculating spray pump or some form of agitation.

CONVEYORIZED SPRAY SYSTEMS:

Specifically designed equipment will provide solution temperature control (range 120° – 160 °F) filtration up stream of spray manifolds and nozzles, adequate vapor exhaust and thorough water spray rinsing. Moderately warm water will provide the best rinsing. Due to the equipment design operating conditions and photoresist thickness, stripping times can vary 1 to 5 minutes. Adjust conveyor speed as required to provide adequate time in the spray chamber to completely remove resist. Follow with a water spray rinse. Recirculating spray systems will promote foaming which intensifies as the stripping solution accrues resist polymers. Antifoam AF-A or AF-B can be used in conjunction with PRS-11 in conveyORIZED equipment. Additions of 1-2 milliliters of antifoam per gallon of working strength stripping solution should be adequate.

SOAK TANK STRIPPING:

The stripping tank must be constructed from compatible materials. Solution heating and vapor exhausting are desired and needed. Agitation, filtration and a tank cover will enhance stripping, prevent redeposition and prolong solution life. Immerse panels to be stripped resist will soften and loosen. When it releases from the surface (1 to 5 minutes) remove and spray rinse or

immerse in flowing rinse tank. Stripper solution MUST NOT be allowed to dry on panels prior to water rinsing.

REPLENISHMENT:

Working strength stripper solution can be used to make up evaporative and drag-out losses. Periodic additions of PRS-11 concentrate to stripper solution will sustain the operation until it is convenient to renew the bath.

MATERIAL COMPATIBILITY:

PRS-11 solution can be used safely in polyethylene, PVC, polypropylene, 316 stainless steel and glass equipment. Avoid using equipment totally or partially constructed from aluminum, brass, bronze or chlorinated PVC, which could contact stripper solution or its vapor. Quartz or 316 stainless steel immersion heaters can be used.