



POLYCHEM

UV/EB INTERNATIONAL CORP.

UV Curable Primer for Surface Treatment

Product Code: UV Curable Primer #T3 50I50E

Description:

This primer provides very fast curing time and exceptional good treatment performance on various plastic substrates. The treated surface shows very high surface energy and super hydrophilic properties that significantly enhance the bonding strength of adhesives, coatings and inks to the substrates. It is essentially transparent, and only minimum wet film thickness is needed.

Specifications:

Appearance: transparent, low viscosity liquid

Odor : Alcohols

Flash Point: 12C (flammable, keep away from fire, spark, and high temperature)

Vapor Pressure(air=1) : 2.07

Specific Gravity(water=1) : 0.79

Applications:

Surface Treatment for: PET, Polyimide (PI), PS, PP, PVC, PC, silicone rubber etc. For PE, PP and PTFE, corona pre-treatment is recommended.

Recommended Working Environment:

- (1). Low humidity (30-60 %RH) working environment is recommended, good ventilation is important to avoid solvent accumulation in working environment.
- (2). This primer contains solvents. Always, keep the primers away from fire, spark, and high temperature to prevent from fire hazard.
- (3). The primer is highly reactive with water and shall not contacted with water, or it will significantly reduce the effect of the primer. If the primer in the bottle develops white residue, the primer shall be tested first before use. Always keep the cap closed while not in use.
- (4). Do NOT reclaim the remanding primer once the primer is taken out of the original bottle to prevent it from contaminations.

NOTE: 取出的處理劑不可倒回原罐中以防變質,建議塗佈乾燥做後 24hrs

內做後製程.

How to Use:

- (1). Use acetone or other types of cleaning solvents to clean the surface of the substrates. (Note that NO residue of water shall remain on the substrates, or it will reduce the effect of the treated surface.)
- (2). Use spray method, dipping method or manually draw down method to form a uniform wet layer of the primer on surface of the substrate. If the wet film thickness is too high, the surface may show white spots. The coated substrate can be stored for future use.
- (3). Air-dry (low humidity 30-60%RH) the primer on the substrate.
- (4). The treated surface typically remains highly active for days or weeks. The duration of time varies from substrate to another. To maximize the bonding performance, it is strongly recommended to apply the ink, coating, adhesive on the substrates as soon as its surface is treated with the primer.
- (5). Treated surface provides high surface and is super hydrophilic. To verify the effect of the treated surface, use few drops of water on the treated surface, it shall show excellent wetting effect.
- (6). It is often observed that the bonding strength after bonding or coating processes will reach its maximum in about 2-3 days.

Clean Up Method:

The primer is low irritation to skin. If contacted with skin, use soap and flush with water.

Package: 500 cc per bottle

Shelf Life and Recommend Storage Conditions:

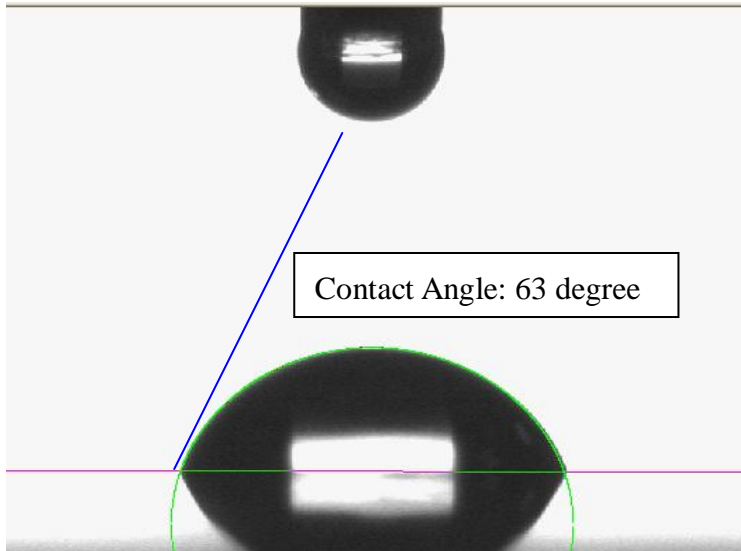
6 months from the date of manufacturing. Stored in a dark and cool place. Highly flammable and do not contact with flame or sparks. Always keep cap closed.

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The Effect of UV Curable Primer on Surface Energy

Contact Angle Test

PET Film Contacted with Pure Water (Poor Wetting)



Contact Angle Test

PET Film Treated with Polychem Primer-T2 with Pure Water (Excellent Wetting)

