"FLAMING EXPERT" FLAME TREATING PLASTICS FOR ADHESIVE BONDING

Flame treatment changes the plastics surface energy by creating an oxidized surface that greatly improves the ability of liquids to "wet-out" thus creating a strong adhesive bond between the surface and the adhesive or coating.







Touch the inner BLUE flame to the surface of the plastic to achieve the greatest effect. To avoid contamination, repair compounds should be applied as soon as possible after flame treating. If any sanding is necessary on the treated surface, reflaming will be necessary before repair compounds are applied.



When treating the plastic substrate, a suitable flame (blue in color from a propane or butane torch) should briefly contact the surface for a period of approximately 1 second. DO NOT MELT, SINGE OR EXCESSIVELY HEAT THE PLASTIC.



Proper flame treatment requires the **BLUE** flame from a Butane of Propane torch to achieve the desired result. A torch with an **ORANGE** flame does not aid in adhesion.



Un-flamed. No water retention.





Wear appropriate hand and eye protection and provide adequate ventilation during this procedure.

Plastic spreaders flame treated then





Water adheres only to the flamed surface (right).

This treatment brings about a change to the polymer surface that increases its surface energy allowing fluids to effectively wet-out the surface and permits a strong adhesive molecular and mechanical bond.

bonded together with Jet Black and allowed to set 1 hr. 15 min.

ROBOTIC FLAME TREATMENT OF O.E.M. BUMPERS PRIOR TO PAINT



Even while the epoxy is still uncured (green) the plastic spreaders are destroyed while trying to break the adhesive bond!

10-12-11—Twin Cartridge Seminar, Collex Collision, Shrewsbury, NJ

EAST COAST