



Application Guide

DT-520

Nano-Ceramic Non-Chromate primer

DT-520; is a high performance, single component, ambient curable and/or oven force cured, self priming product. That also withstands temperatures in excess of 1800F when used in conjunction with substrates suitable for use at high temperatures.

DT-520 was chemically designed; to create a covalent bond to substrate materials, simple application methods, applied as a thin film coating resulting in high performance properties. Even so surface cleanliness is still of the utmost importance.

The surface should be clean, dry and free from oils and other containments.

- On metal alloy component surfaces* it is always preferred to have a light blasted profile on the surface to aid in the coatings physical bond, if it is possible to do so.
 - DT-520 covalently bonds well to all metal types, (i.e.; aluminum, titanium, stainless, metal oxides, most plastics, etc.).
- On composite substrate surfaces it is also preferred to have a light abraded profile on the surface to aid in the coatings physical bond, if it is possible to do so.

Slightly mix or shake the DT-520 primer contents before applying: (i.e.; by hand is acceptable)

- If spraying, a fine spray tip (0.08) or similar is best, apply at 1.5 to 2.5 microns dry film maximum,
- Top coat within 10 to 15 minutes of application – it will feel dry to the touch – but the surface structure is still open, allowing for the top coat to bond in well.
- If the primer dries longer than 10 to 15 minutes before top coating, re-apply the DT-520 as above, which will allow for the surface of the DT-520 to open-up again.

DT-520 primer may be applied directly to substrate surfaces where there concerns of proper adhesion, due to potential contamination, (i.e.; silicones, hard anodizing processes, etc.)

DT-520 primer may also be used over any of the cured DT coatings to achieve good intra-coat adhesion, where re-coating due to damage or similar is involved.

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