

# COLLISION REPAIR INFORMATION

## FOR THE TOYOTA DEALER

TITLE: WATER-BORNE PAINT GUIDE & REPAIR  
RECOMMENDATIONS

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SECTION: REFINISH BULLETIN #68

MODELS: 1995 AVALON/CAMRY

DATE: MARCH 1996



Toyota began using water-borne paint in the U.S. with the introduction of the U.S. built 1995 Avalon and selected U.S. built 1995 Camrys. Water-borne paint is used on both 2 and 3 stage paint systems. The following matrix identifies the type of paint used by paint color code:

COLOR CODE	COLOR NAME	NUMBER OF STAGES	PAINT TYPE
040	SUPER WHITE II	1	SOLVENT
051	DIAMOND WHITE PEARL	3	WATER-BORNE*
1A0	PLATINUM METALLIC	2	WATER-BORNE
202	BLACK	1	SOLVENT
3L3	RUBY PEARL	2	WATER-BORNE
4M9	CASHMERE BEIGE METALLIC	2	WATER-BORNE
6M3	SILVER SPRUCE METALLIC	2	WATER-BORNE
751	EVERGREEN METALLIC	2	WATER-BORNE
8K0	NIGHTSHADOW PEARL	2	WATER-BORNE
927	SHADOW PLUM PEARL	2	WATER-BORNE

### BACKGROUND

- Base color coats for 2 stage paints are water-borne type.
- \*Only the Mica (intermediate Pearl) coat in 3 stage paints is water-borne.
- Conventional solvent-based clear coats are used over both solvent and water-borne systems.
- Conventional solvent-based color coats are used in 3 stage paint systems.

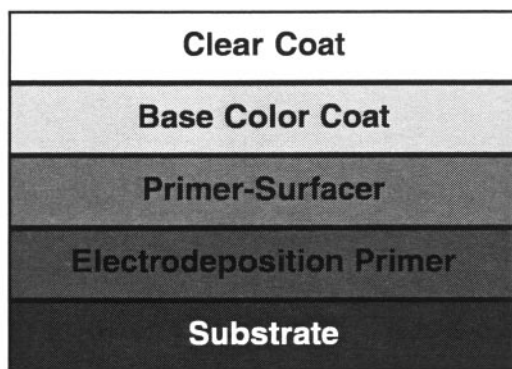
**BACKGROUND (cont'd)**

- Water-borne paints are consistent with current solvent-borne technology in the use of resins, solvents and pigments. The difference is the water content is dramatically higher while the solvent content is drastically reduced, hence the name water-borne.
- Water-borne paint resins are essentially the same as the resins used in solvent-borne paints. Once dried, both paint types exhibit similar properties.
- When solvent-borne clear coats are applied over properly dried water & solvent-borne base coats, they are compatible and exhibit a strong durable paint film.

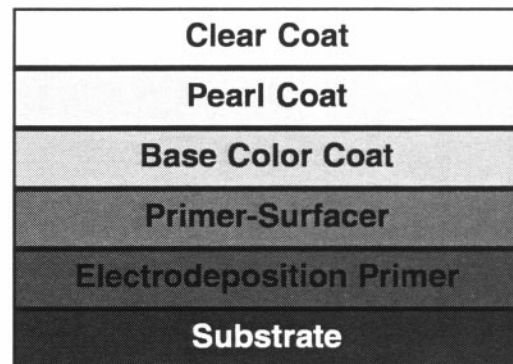
**PAINT FILM STRUCTURES**

- Two-stage paint films have the pigment and metallic or pearl mixed together then applied over a primer-surfacer or tinted primer-sealer, followed by the clear coat.
- In a three-stage paint system, a solid base color coat is applied over the primer-surfacer or primer-sealer. The intermediate layer or pearl coat is then applied, followed up with the protective clear coat.

The following are examples of 2 and 3 stage paint systems.



TWO-STAGE



THREE-STAGE

**REPAIR METHOD**

When performing a repair to either 2 or 3 stage paint system, use only a high quality urethane or water borne refinish paint system following the paint manufacturer's recommendations.