

# SkillsUSA Automotive Refinishing Technology National Championships -Featheredge, Prime, and Block Scenario-

Each contestant will be given a bumper cover section that will contain an approximately 3-4 inch scratch in the middle of it. The scratch is to be feathered out, primed, block sanded, and final prepped for paint.

The remainder of the bumper section (outside of the main repair area) may have scratches or other damage. Due to inconsistent conditions from cover to cover, the student will only be judged on the repair of the main scratch and on the prep to the entire section. They are not expected to repair any damage other than the main scratch.

Under normal circumstances an adhesion promoter must be applied to any bare plastic. Due to time constraints, the contestants will NOT be expected to use adhesion promoter.

Once the scratch is feathered and the bumper is cleaned, primer surfacer should be applied to the repair area, from the outside of the repair in (reverse priming). For number of coats of UV primer, please refer to the paint manufactures Technical Data Sheet.

After all primer is applied, allow proper curing of the filler with UV light before sanding. For Proper flash, cure times and proper cleaning after cure, refer to the paint manufacturer's Technical Data Sheet.

The contestant should block the repair area with a grit coarse enough to remove the guide coat and level the surface without removing too much film (example: P320). Final sanding should be done with **P500-P600 dry** (we should only be dry sanding during the competition).

Once sanding is complete and final cleaning is performed, the entire section should be ready for basecoat and clear (no sealer). They will not be painting these bumpers as part of the contest.

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For reference, our test panel, pictured on next page, was done in the following manner:

- Cleaned with waterborne cleaner
- Featheredge scratch with P180
- Surrounding edges were sanded with P320
- Apply UV primer surfacer and properly cure using UV light.
  - For proper flash, cleaning and UV Curing times, refer to the paint manufacturer's Technical Data Sheet.
- Guide coat was applied
- Repair area was blocked with P320
- Entire section was sanded with P600
- Final clean entire section

The repair area was completely smooth with no break-through in the primer.

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