

AWLGRIP HDT REPAIR MANUAL

2019

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Awlgrip has created a new standard in topcoat appearance & durability: High Definition Technology. This high performance mirror-like topcoat specifically tailored for use with AkzoNobel toners is not only a high gloss, robust topcoat system but is also repairable and buffable.



Awlgrip HDT is a High performance polyurethane topcoat that combines hardness & micro-scratch resistance with repairability.

Should the need arise to repair your Awlgrip HDT coating system, from the smallest scratch through to a large scale repair, the following manual will take you step-by-step through the preparation, application and finishing of Awlgrip HDT greatly aiding in the outcome of a successful repair.

It is important that **every** step in the process is followed as described or the resultant repair will be visible and require repeating.

Note: Some colors may be harder to repair than others. The following instructions and application procedures require a degree of application skill and previous spray application experience.

1

PREPARATION



As with any application or repair, preparation is a key stage in the process. The area to be repaired, and a large section of area around it, should be thoroughly cleaned and degreased. Be sure all detergent residue is rinsed from the surface. Use **Awlgrip Wipe-Down Solvent** (NA/AP: **Awlprep 400 T0170**; EU: **Surface Cleaner T0340**) as a final wipe down of the surface using the Two Cloth Method.

2

SANDING REPAIR AND SURROUNDING AREA



Sand the repair area, and the surrounding area. For small repairs (<6"/15cm) sand approximately 5 times the size of the damaged area. For larger repairs (12-36" / 30-92cm) sand beyond the edge of the damaged area to allow room for the subsequent coats

in the remaining steps. Sand the repair area using 400 grit paper, work a second area beyond the 400 with 800 grit, and sand beyond the 800 with 1500 grit out on to the undamaged paint area. Blow off the surface with clean, dry compressed air while dry wiping with clean rags to remove sanding dust and residue. Following removal of the dust and residue, wipe the surface with **Awlgrip Wipe-Down Solvent** (NA/AP: **Awlprep 400 T0170**; EU: **Surface Cleaner T0340**) using the Two Cloth Method.

Note: Care must be taken not to cut through the topcoat or other high spots. Hold the DA flat, turn down the air pressure (slow to medium speed), and sand using very light pressure.

3

APPLICATION OF AWLGRIP HDT



Mix your Awlgrip HDT color as per product data sheet. Apply Awlgrip HDT over the damaged area, covering all of your 400 grit sand scratch on your first coat. Allow to flash off before applying your second coat. The second coat should be applied over your first coat and half way into your 800 grit sand scratch area.

Note: With most colors you should be able to achieve full opacity in 2 coats, however, certain colors may require 3 coats.



IMPORTANT:

Full coverage and hide of the damaged area with Awlgrip HDT needs to be achieved before proceeding to step 4.



IMPORTANT:

When applying the Awlgrip HDT color, care should be taken to apply a fully coalesced film, but not over-apply. Always spray perpendicular to the substrate except when coming to the outer edge of the area

being coated, at which point the spray gun should be pivoted away from the substrate to "fade-out" Awlgrip HDT.



4

APPLICATION OF AWLGRIP HDT CLEARCOAT (C0300)



Prepare a standard mix of Awlgrip HDT Clearcoat (C0300) once the previous coat of Awlgrip HDT has flashed. Apply Awlgrip HDT clearcoat as per product data sheet over the Awlgrip HDT color extending out to now cover all of your 800 grit sand scratch area

5

MIXING OF AWLGRIP HDT CLEARCOAT AND AWLGRIP REPAIR TOPCOAT BLENDER (T0195)



Mix Awlgrip HDT Clear coat 50:50 by volume with Awlgrip Repair topcoat blender (T0195), assuming you have enough Awlgrip HDT clear coat left after the application of your 1 coat of clear. If not mix more Awlgrip HDT Clearcoat as per product datasheet.



IMPORTANT:

Use the same tip and aircap as for all previous applications, reduce air pressure and adjust fan and fluid feed for the application.



APPLICATION OF BLENDED AWLGRIP HDT CLEARCOAT/ AWLGRIP REPAIR TOPCOAT BLENDER

The 50:50 blend is only intended to be applied to the 1500 grit area therefore, be prepared to do this while your coat of clear is still wet. Overlap into your coat of clear just enough for full melt in. It is vital that all of the 1500 grit scratch is coated with the 50:50 blend.



IMPORTANT:

Be mindful of where your 1500 grit starts and stops. Try not to over apply onto unsanded area. However, it is better for the repair if all sand scratches are filled, even if this means a small amount of the 50:50 blend is applied onto the unsanded area.



Apply the 50:50 blend with adjusted fluid feed, fan and air pressure taking care to apply a full film. This is critical otherwise a successful blend will prove nearly impossible.

IMPORTANT:

Carry out step 7 immediately.



BLENDED OF AWLGRIP HDT CLEARCOAT WITH EXISTING FINISH

While the previous coat is still wet, apply straight (neat) **Awgrip Repair topcoat blender (T0195)** starting ~2-3" (5-8cm) in from the outer edge of the **Awlgrip HDT Clear coat Blend** (step 6) continuing to apply right over the edge of the clear and to the edge of the unsanded area in order to blend the clear into the existing coating.



IMPORTANT:

Using the same tip and aircap as for all previous applications, reduce air pressure and adjust fluid feed and fan for the application of the pure **Awlgrip repair topcoat blender**.

As this step involves applying straight solvent take care to not over-apply or have excessive volumes of solvent on the surface as this could result in defects from the solvent flowing unevenly across the repair area. "T0195 evaporates quite quickly so if multiple coats of Awlgrip repair topcoat blender are needed, wait 30-40 seconds to reapply."



FINAL STEPS

The above 7 steps should result in a near-invisible repair that may not require buffing. However, once cured the **Awlgrip HDT** can be buffed to further blend in the repair. Do not wet sand blended area.



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