

Product Description

DynaTexture® HS is a two-component, polyurethane coating meeting the 2.8 VOC EPA regulations for solvent emissions. DynaTexture® HS meets the high performance properties required by the business machine, computer, and electronic enclosures industry. DynaTexture® HS may be applied as a low gloss, as smooth or textured coatings on structural foam, and on injection molded plastics such as polyphenylene oxide, polycarbonate, ABS, polystyrene, SMC, wood, and metal substrates. DynaTexture® HS has direct adhesion to many plastics surfaces and does not normally require a primer or barrier coat.

Surface Preparation:

General: See General Surface Preparation Guide

Aluminum or Galvanized Steel: Prime with DynaPrime® Wash Primer followed by DynaPrime® Sealer, Spray Fill or 2.8 VOC catalyzed Epoxy Primer.

Plastic: Due to the diverse nature of plastic substrates, a coating or coating system should be tested for acceptable adhesion to the substrate prior to use in production. A filler or barrier coat may be required. Please check with your NCP Coatings Technical representative for system recommendations.

Steel or Iron: Remove rust, mill scale, and oxidation products. For best results, treat the surface with a surface chemical treatment of zinc or iron phosphate to improve corrosion protection. For untreated metal, prime with DynaPrime® Wash Primer followed by DynaPrime® Sealer, Spray Fill or 2.8 VOC catalyzed Epoxy Primer.

Wood (interior only): Must be clean, dry, and finish sanded. Seal with a full coat of DynaPrime® 2.8 Spray Fill and sand.

Application

Note: Maximum total reduction is 5% by volume to maintain 2.8 VOC.

Conventional Spray:

Air Pressure.....30 - 40 psi
 Fluid Pressure......8 - 12 psi
 Tip......97/FF (DeVilbiss)

Airless Spray:

Pressure..... 2000 - 2800 psi
 Tip......009" - .011"

Air Assisted Airless:

Air Pressure..... 10 - 30 psi
 Fluid Pressure..... 600 - 900 psi
 Tip......009" - .011"

HVLP:

Atomizing air pressure at the cap..... 3 - 5 psi
 Fluid Pressure..... 5 - 10 psi
 Tip......040
 Dip, FloCoat, and Brushing are not recommended.

Clean tools / equipment immediately after use with Dynathane® DMR series reducer, MEK, MIBK, or MAK.

Technical Data:

Gloss: Low
Volume Solids: 63 +/- 2%
 Catalyzed and reduced may vary by color

Viscosity: Catalyzed and reduced
 13-21 seconds #3 Zahn cup

Recommended Film Thickness:
 Mils Wet 3.0 - 4.0
 Mils Dry 1.85 - 2.5

Spreading Rate: (no application loss)
 1000 sq. ft. at 1.0 mil dft.

Drying (1.5 mils. Dft, 77° F, 50% RH)
 To Touch: 25 - 35 minutes
 To Handle: 1 - 3 hours
 To Recoat: no critical recoat
 Force Dry: 30 - 45 min. at 140 - 180° F

Curing temperatures above 140° F may yield slightly lower gloss.

Spatter or textured coat may be applied immediately after flash off of smooth coat.

Do not exceed heat distortion temperature of the substrate.

Flash Point 35° F

Mix Ratio:
 4 parts DynaTexture® HS
 1 part DTA 7519
 1 part DMR reducer

Pot Life 6 - 8 hours

Less reduction or higher temperatures will shorten pot life.

Package Life 2 years unopened

VOC (as packaged)
 2.8
 (catalyzed and reduced as above)
 3.5

Performance Tests

Substrate: Bonderite 1000 Steel panels, 1.8 mil dft., 30 minutes at 140° F, 10 days cure time.
 Salt Spray Test (1/8 rust at scribe)..... 100 hours
 Humidity 100% RH, 100°F..... 100 hours
 Pencil Hardness.....2H-3H
 Adhesion..... Excellent
 Water Immersion..... 24 hours
 Taber Abrasion
 CS17 Wheel, 1000g, 000cycles <100mg
 Impact Resistance, Direct80 in lb.
 Impact Resistance, Reverse 40 in lb.
 MEK resistance- 50 single rubs should have slight to no burnish.
Chemical Resistance
 Degree of staining after a half hour spot test and 1 hour recovery.
 Isopropanol Excellent
 10% NaOH..... Excellent
 Ethyl Acetate..... Excellent
 Ammonia..... Excellent
 MEK.....Excellent
 Toluene..... Excellent