

GENERAL PURPOSE SPRAY ELASTOMER

■ Description

VFI-203 HH is a 100% solids, two component one to one by volume polyurea coating intended to provide tight films even when applied under high humidity conditions.

■ Usage

VFI-203 HH is intended for use as a spray applied coating or mold making material for a variety of applications including but not limited to the following:
Spray forming for flexible molds.
Spray applied highly elastic decorative objects.
Spray applied crack bridging membranes.

■ Color

Standard colors for VFI-203 HH is semi-transparent tan. Custom colors are available. Please contact Volatile Free, Inc. for more information on custom colors.

Physical Properties

■ Chemical Resistance

Good hydrolytic stability to 180°F. Good resistance to inorganic bases, acids, and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents.

■ Tensile

ASTM D-412
Strength: 1855 psi
Elongation: 711%
Permanent Set: 25% max.
Elastic Modulus 942

■ Hardness

ASTM D-2240
Shore A 73 - 76
Shore D 22 - 26

■ Tear

ASTM D-624
Die C 232 pli

■ Abrasion Resistance

Excellent.

■ Adhesion

ASTM D-4541.
Strength: 550 lbs./in.² – with adhesive failure.

Liquid Component Properties

■ Solids

Weight: 100%
Volume: 100%

■ Viscosity

Poly Component: 500 ± 200 cps @ 77°F
Iso Component: 600 ± 200 cps @ 77°F

■ Density

Poly Component: 8.35 lbs./gal. (S.G. 1.002)
Iso component: 8.89 lbs./gal. (S.G. 1.067)

■ V.O.C.

Conforms to all Air Pollution regulations. Contains no Volatile Organic Compounds.

■ Flash Point

ASTM D-56 (TCC)
Greater than 200°F.

■ Toxicity

Iso component contains MDI isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

■ Storage Stability

One year in unopened containers at 50° - 90° F.

Application

■ Mixing

1:1 by volume.

■ Reactivity

Set free time is 75 seconds and tack free time is 12-15 min when sprayed with hot plural component airless spray equipment.

■ Cure Time

Product requires 1-2 hours to develop substantial strength and 8-16 hours to develop full cure.

■ Equipment

Plural component airless spray equipment capable of maintaining temperature of 130° - 140°F and 1500 psi minimum pressure. Contact Volatile Free, Inc. for specific instructions and spray equipment needed.

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