

TECHGRIP™ EH1 ADHESION PROMOTER FOR HYPALON® SURFACES

DESCRIPTION

Techgrip EH1 is a one-component, flexible adhesion promoter used to adhere Techthane® solvented spray elastomers to Hypalon-coated fabrics. EH1 applies easily by brush, roller, spray, or wiping. It requires no mixing, has no pot life limitations, provides a wide coating application window, and forms adhesion immediately. When properly used, it provides reliable adhesion that typically exceeds the strength of the Hypalon. Typical uses are for applying Techthane to inflatable rafts, and for seam coating and repairs to hypalon roof and pond liner membranes.

SUMMARY INFORMATION

PROPERTY

Coverage Per Coat	300 ft ² /gal. (7.3 m ² /L)
Thickness Per Coat	1 mil (0.025 mm)
Recommended Coats	1
Maximum Coats	Not determined
Primer Recoat Window	Not determined
TECHTHANE Coating Application Window	10 min. - 16 hrs. @ 75°F (24°C)
Pot Life	Indefinite
Equipment Required	brush, roller, spray, or wiping towels

PROPERTIES OF LIQUID

PROPERTY

Viscosity, Brookfield @ 75°F (24°C)	100 cps/mPs
Volume Solids	2 %
Flash Point, TCC	80°F (26°C)
Color	Clear, Red, or UV fluorescent
VOC	7.65 lbs./gal. (917 g/L)

APPLICATION INFORMATION

Equipment

BRUSH/ROLLER: Brushes or rollers must be solvent-resistant, short-napped, and able to evenly apply approximately 1 mil (0.025mm) of EH1.

SPRAY: Equipment should have a minimum air:fluid pressure ratio of 15:1, and at 1,500 psi (10.00 MPa) or less offer a good spray pattern. Equipment should have teflon packings, teflon or nylon hoses, and a 100 mesh (0.15 mm) outlet filter. Spray equipment must be conductive and grounded to an earth ground when spraying. Do not use air spray or other equipment that puts compressed air in contact with the EH1.

Equipment **MUST** be clean to spray primer. Contaminants such as oil or silicone will interfere with the primer bond.

WIPING: Wipe using only use towels that are 100.00% paper/cotton blends, preferably Wypall® X70 white towels from Kimberly Clark (www.kcprofessional.com). Do not use any towels made from recycled materials, or that contain softening agents or any other additives.

Surface Preparation

Techgrip EH1 must only be applied to clean, properly prepared Hypalon surfaces. To ensure a proper surface for bonding, follow this procedure:

- 1.) Wipe Hypalon surface with perfectly-clean toluene or xylene on a new towel to remove all traces of dirt and oil. Thoroughly rinse clean using new xylene or toluene and a new towel until no discoloration remains on towel.
- 2.) Lightly buff surface to a matte finish using a chemical-resistant abrasive pad, 200 grit wet-type sandpaper, or steel wool. The goal is to just remove gloss and not cut into the Hypalon. If Hypalon is already matte due to previous service, lightly re-buff to expose fresh hypalon.
- 3.) Wipe surface with new toluene/xylene on a new towel. During the wiping process, re-arrange the towel several times to expose clean towel surface, and once the towel has become discolored, replace it with a new towel and new xylene/toluene. Continue until no more discoloration is observed on the towel.
- 4.) Inspect for any remaining unprepared / glossy areas. If any unprepared areas remain, restart at step 2 in those areas.

Note: For new, unused Hypalon surfaces, it may be possible to eliminate or reduce the buffing requirement and/or other surface preparation steps. Users should thoroughly evaluate their own requirements for adhesion on a case-by-case basis.

Application

Wipe entire surface once over with new toluene/xylene on a new towel.

Spray, brush, or wipe a thin coat of EH1 to the surface to be coated. Allow to dry (usually 5-10 minutes). Per coat thickness should be about 1 mil (0.025 mm) or less.

TECHTHANE® Application Window

Apply Techthane coating per normal application procedures once EH1 is dry, and up to 16 hours later.

Curing / Bond Formation

EH1 adhesion forms immediately after application of Tectthane, with highest adhesion achieved after 3-4 days @ 75°F (24°C).

AVAILABILITY

1/4 pint (0.12L), 1 quart (0.94L), 1 gal. (3.8L), and 5 gal. (19L) sizes, in clear, red, or UV-activated fluorescent coloring.

SHELF LIFE / STORAGE

In unopened containers, Techgrip EH1 is good for 6 months minimum from date of shipment.

Techgrip EH1 is packaged in sealed containers under a dry nitrogen blanket. Containers should be kept tightly sealed and stored in a cool, dry area that is protected from direct sunlight. Storage temperature should not exceed 80°F (27°C). Containers that have been opened should be resealed immediately, and if the primer is not to be used within 24 hours, the container must be purged with dry nitrogen to prevent moisture contamination.

SAFETY

Vapors from Techgrip EH1 can be harmful. Forced air ventilation must be used for all indoor applications. When working in tanks and other closed vessels, or downstream from spray gun, fresh air breathing equipment must be worn (chemical cartridge masks suitable for organic vapors may be used under certain conditions with adequate ventilation). Protective clothing should be worn at all times. Techgrip EH1 contains flammable and must be protected from heat, sparks, and open flames.

Avoid contact of components with skin and clothing. If contact occurs, wash thoroughly with soap and water. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. If swallowed, do not induce vomiting, call a physician immediately.

Refer to the Material Safety Data Sheet (MSDS) for further information prior to use of this material.

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