



TECHNICAL DATA SHEET

LINK-1 SC SINGLE COMPONENT POLYUREA PRIMER

PRODUCT NAME: LINK-1 SC SINGLE COMPONENT POLYUREA PRIMER

MANUFACTURER: Penntek Industrial Coatings

STREET ADDRESS: 7850 Lakeville BLVD

CITY, STATE, ZIP: Lakeville, MN 55044

IFORMATION PHONE: 952-236-9305

EMERGENCY PHONE: INFOTRAC 800-535-5053

PREPARED BY: Kyle Baynes

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DESCRIPTION

LINK-1 SC is a single component polyurea primer that contains a non -HAP's solvent. LINK-1 SC exhibits high chemical and abrasion resistance for concrete. Its low viscosity allows it to penetrate porous surfaces, leaving a bubble-free coating. It also exhibits a low sensitivity to substrate moisture, leaving only minimal bubbling when applied to damp surfaces.

RECOMMENDED USE

CONCRETE

ADVANTAGES

VOC exempt

Penetrates and seals the surface, leaving a smooth, pinhole and bubble-free coating

Good physical properties

Outstanding stability at low temperatures

VERSATILITY

Working at different volume ratios offers a variety of stiffness and flexibility.

Primer may be applied on damp surfaces with no bubbles or foaming.

Flexibility to adjust the cure profile to match customer processes with the adjustment of catalyst.

Long work times (up to 45 minutes)

PACKAGING

5-GALLON BUCKET



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SURFACE PREPARATION

General: Surface must be properly prepared prior to application. This could entail shot blasting or grinding, scrubbing, high pressure detergent washing, steam cleaning or solvent wiping of the surface to remove dirt, oil, grease pollutants and other contaminants. Allow the surface to thoroughly dry. Once dry, remove loose or excess mortar or other material that may work to impair adhesion.

MIXING

Mixing is not required unless using a pigmented version.

APPLICATION

LINK-1 SC can be applied using a ¼" nap roller. Apply as uniformly as possible avoiding excessive back rolling and cross rolling will lessen the chance of bubbling.

CLEAN UP

Before product has cured remove unwanted LINK-1 SC with Methyl Ethyl Ketone (MEK).

Low temperature and/or low humidity extend the cure time.

STORAGE

The reaction of isocyanates Part A with water, leads to the formation of insoluble urea's and carbon dioxide gas, which gas result in pressure buildup inside closed containers. Therefore, extreme care must be taken to assure containers used remain dry. Containers that have become contaminated with moisture should not be subsequently sealed; otherwise, a hazardous increase in pressure may result.

WARRANTY

The technical data and other printed information furnished by Penntek Industrial Coatings are true and accurate to the best of hardeners surface and other our knowledge. Penntek Industrial Coatings conforms to in house quality control procedures and is reliable and is offered solely for evaluation. The use of this product is beyond the control of the seller; therefore, the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Penntek Industrial Coatings makes no warranty, expressed or implied of its products and shall not be liable for indirect or consequential damage in any event.



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Typical Physical Properties

	Units	Results
Tensile strength	Psi	3300
Elongation	pli	85%
Tear strength	pli	440
Polyurea topcoat adhesion	psi	>500
Adhesion to concrete	Elcometer	550 psi
Typical film thickness	Mils	3-8
Minimum re-coat time	hours	4
Viscosity at 77° F (25°C)	cps	220
Specific gravity at 77°F (25°C) g/cm ²	1.19	
Flash Point (Cleveland open cup)		>110/>230
Vapor pressure at 77°F (25°C) (mm)		<10-5
Recommend storage temperature	60-100°F (16-38°C)	
Shelf life	Un-opened	12 months
Solids by weight		60%
Solids by volume		64%
Abrasion resistance	ASTM D-4060	20 mg max weight loss

HANDLING AND STORAGE

The reaction of isocyanates with water leads to the formation of insoluble areas and carbon dioxide gas which can result in pressure buildup inside closed containers. Therefore, extreme care must be taken to ensure containers used for LINK-1 SC remain dry. Containers that have become contaminated with moisture should not be subsequently sealed; otherwise a hazardous increase in pressure may result. Freshly manufactured LINK-1 SC is an amber liquid. Sedimentation is usually due to contamination from atmospheric moisture or to dimer formation. Reaction from atmospheric moisture can be prevented by storing LINK-1 SC in carefully sealed containers or under a dry nitrogen atmosphere during handling LINK-1 SC must be carefully resealed after each sampling. A small amount of finely divided insoluble solid in the product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable inline filter. It is suggested that the filter vessel be of stainless steel with a suitable polypropylene filter bag. The lines should be heated and blown clear with nitrogen after use.