



PRODUCT DATA SHEET (PRELIMINARY)

HPL-6700PSX High Performance Lining

GENERAL DESCRIPTION

DUROMAR® HPL-6700PSX™ is a specially formulated, non-yellowing, 100% solids epoxy polysiloxane hybrid. It combines excellent color retention and UV stability, with the performance of 100% solids epoxies. Because of its unique properties, it does not require humid conditions to properly cure, and does not outgas toxic or flammable alcohols. Its primary use is in exterior industrial applications with atmospheric or direct chemical exposure and is designed to replace traditional systems like aliphatic urethane and acrylic topcoats that offer inferior chemical performance. The HPL-6700PSX is a 2K product that is formulated in a convenient 1:1 by volume ratio allowing packaging in cartridge spray tubes as well as other traditional methods. It is also designed as both a self-priming, direct-to-metal (DTM) product, or as a topcoat for sacrificial barrier primers like organic and inorganic zinc.

CHEMICAL DESCRIPTION

Multi-functional Alicyclic epoxy, with a uniquely modified amine-terminated silicone curing agent blend.

Typical Properties

Components	2
Visual Appearance	High Gloss
Specific Gravity	1.27
Solids by weight	100%
Mix Ratio (by weight)	1.3:1 (B:A)
Mix Ratio (by volume)	1:1 (B:A)
Theoretical Coverage	160 ft ² /gal @ 10 mils

Performance Data

Max. Dry Operating Temperature	275°F
Film Flexibility	Excellent
QUV/Weathering	Excellent
Low Water Absorption	Excellent

Chemical Resistance Data

pH Range	1.5-14
Alkaline/Casutics	Excellent
Inorganic Acids	Excellent
Organic Acids	Very Good
Solvents	Good
Hydrocarbons	Good
Water	Excellent

Typical Curing Properties

Min. Application Temp.	40°F
Min. RH% Requirement	No Limit
Pot Life @ 70°F	2.5 hrs.
Recommended Number. of Coats	1-3
Recommended Film Thickness per Coat	5 mils min. 10 mils max.
Dry to Touch	6-8 hrs.
Recoat Time @ 70°F	3 hrs. min. 96 hrs. max.
Functional Cure	36 hrs.
Full Cure to immersion	96 hrs.
Recommended Surface Preparation	SSPC SP-10 2.0-3.5 mil profile
Recommended Application Equipment	Brush, Roller, Air-assist, Cartridge Gun, Airless

FORCE CURING

Force cures are not recommended for this product. Contact **DUROMAR** for specific installation questions.

SHELF LIFE

This product has a minimum shelf life of one year when stored in a dry area at 50-110°F in the original sealed container.

HANDLING/SAFETY

Warning! Eye and skin irritant. May cause dermatitis and sensitization.

Always read and understand the product MSDS.

Avoid contact with eyes, skin or clothing. Avoid breathing vapor, mist or spray. Use with good ventilation.

FIRST AID

In case of contact:

Eyes: Immediately flush with water for at least 15 minutes.

Skin: Immediately remove from skin with dry cloth followed by thorough washing with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen.

Ingestion: Give large quantity of milk or water, induce vomiting. Contact a physician immediately.

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General Application Guidelines

Always read and understand the specific product Data and MSDS sheets and the **DUROMAR Information and Application Guide** before using these High Performance Lining Products. For more information contact **DUROMAR** at 781-826-2525 or by email at information@duromar.com.

I. STORAGE:

Store all product in a clean, warm area where the temperature remains between 50-110°F (10-43°C). Cold products are very viscous and will be difficult to mix and apply.

Products shipped during cold months can remain cold for many days even when stored as recommended. Paste or trowel applied products will remain cold longer than liquid or spray applied products. Heating of the individual components may be required to bring the products to the recommended temperatures.

II. SURFACE PREPARATION:

All surfaces to be lined are to be clean, dry, and oil free. Refer to the **DUROMAR Information and Application Guide** for specific instructions for various surfaces such as concrete, metal fiberglass, etc.

Minimum surface temperature during application - refer to Product Data Sheet.

III. APPLICATION EQUIPMENT:

Brushes – Short bristle, nylon and non shedding. Replace when products become hot or stiff

Rollers – short nap (3/8" max.) non shedding, with a polyethylene core. Replace when products become hot or stiff

Airless Spray Equipment and Application recommendations are listed in the **DUROMAR Information and Application Guide**.

IV. MIXING:

Do not add solvent to any DUROMAR product. These 100% solids materials are formulated to be applied as shipped after proper mixing.

The temperature of the Hardener (A) and Base (B) portions should be between 70-80°F (20-25°C). Mix them separately to insure a uniform consistency.

Add the entire contents of the Hardener (A) to the Base (B) bucket. Use a brush or squeegee to assist in the transfer. These portions are accurately measured and best product performance will be obtained if all the Hardener and Base is combined. Pouring from one container to the other (boxing) during mixing is very helpful in insuring complete mixing.

Mix the products until no streaking is observed and then for about one (1) minute longer.

V. APPLICATION:

For hand application, immediately break down the full unit into smaller portions such as roller pans, small buckets, or trowel boards. This will keep the product cooler and improve the useable life.

For airless spray application, see Section 4 in the **DUROMAR Information and Application Guide**. Make sure all components are working according to the airless equipment manufacturers' instructions and the product components are at the recommended temperature before spraying.

VI. OVERCOATING:

When applying multiple coats of any epoxy products, always check for Amine Blush before applying the next coat. Amine Blush may occur when the epoxy surface is cool or in humid environments. It has the appearance and feel of a light oil film on the surface. When dry it has a white chalky appearance. If detected, wash the surface with a 2% hydrochloric acid solution followed by a water wash until the surface pH is between 6-8. Allow to dry before applying the next coat.

VII. CLEAN UP

Most solvents and commonly used thinners such as MEK, acetone, xylene, 1,1,1 trichloroethane, and safety solvents such as Ensolv, etc., can be used for cleaning tools and equipment. However, as many of these materials are flammable or present other safety hazards, the user should read the MSDS for these materials before using. In no event should these materials be used to clean material from the skin, eyes or clothing.

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