

Technical Data Sheet

2-Component Polyurethane Flexible Silk- Screen Ink

Product description:

Description:

PBWW Silk-Screen Ink is a solvent based 2-component polyurethane ink formulated for silk-screening applications. It provides a long lasting, durable finish on rubber, recycled rubber and many synthetic surfaces. The ink is available in a medium gloss finish on which reflective glass beads can be sprinkled for reflectivity. It is available in over 50 colors and special colors may be developed upon request.

Intended use:

PBWW Silk-Screen Inks are designed to aesthetically enhance the appearance of many common surfaces by allowing the application of detailed, multi-colored lettering, logos, slogans or decorative designs on rubber, recycled rubber, and synthetic surfaces.

- Mud flaps
- Speed control devices
- Parking curbs
- Play surfaces
- Sports flooring / Gym mats
- Lobby / vestibule mats

Advantages:

- Wide range of standard colors
- Excellent wear resistance
- U.V. stable and chemical resistant
- Outstanding adhesion
- Excellent flexibility
- Can provide a reflective surface

Characteristics:

Physical data parts A&B mixed*:

Viscosity (ASTM D562-81):	100 - 110 K.U.
Specific Gravity (ASTM D1475):	1.1 - 1.3
Elongation (ASTM D2370):	200%

*Typical results, not intended for use as specifications.

Pot life:

1 hour (may be considerably less in high humidity and or high temp conditions)

Shelf life:

1 year, if stored in its original container, unopened and in a heated warehouse.

Drying time (ASTM 1640):

(at 21°C / 70°F and 50% R.H.)

Re-coat time:	8 - 12 hours
Touch dry (for inspection purposes):	18 - 24 hours
Dry hard:	72 - 96 hours
Complete chemical cure:	7 to 10 days

Drying times may be accelerated considerably with the addition of **292-1AC** or **SC888 Accelerator** and/or through the introduction of heat through various commercially available oven systems.

Application:

Note: Please see our APPLICATION GUIDE FOR PBWW POLYURETHANE SILK SCREEN INKS ON RUBBER AND RECYCLED RUBBER for more detailed information on Surface Preparation, Mixing Instructions and Application.

Surface preparation:

The surface to be coated must be clean and dry. If necessary remove surface dirt by vacuuming and/or a warm water wash. Allow it to dry completely. Wash with **UC500S Thinner**. On rubber surfaces, **POLYBOND 4988 Surface Conditioner** must be used to condition the rubber to accept **PBWW Silk-Screen Inks**. This results in superior adhesion.

Mixing instructions:

Make sure all preparations are completed, and all the equipment is ready before mixing. Mix the Part "A" thoroughly until homogeneous and prior to blending with the Part "B". Scrape the walls and bottom of the container to ensure that no pigment has settled out. Mix 4 Parts "A" to 1 Part "B" by volume. Mix well. Total mixing time should be 2 - 3 minutes. Scrape the walls and bottom of the container to ensure complete blending. For proper curing, the correct amount of Part "B" is essential. It is also vital that the components are thoroughly mixed together. Due to limited pot life do not mix more material than can be applied in 60 minutes (less in high humidity and or high temp. conditions).

Application:

PBWW Silk-Screen Inks were formulated for silk-screening applications but may also be applied by roller. One or more coats may be applied to achieve desired opacity and dry film thickness. A 2.5 - 3 mil dry film thickness is recommended for most applications. For good inter-coat adhesion, subsequent coats must be applied within 24 hours of the preceding coat. Otherwise, a light abrading of the surface is recommended between coats.

CLEAN-UP: Wash all equipment etc. with **UC500S Thinner**.

Disclaimer:

Due to conditions beyond our control, for example: the variable chemical composition of recycled rubber and rubber binders, or surface penetration of mould release agents; there may be cases where some adhesion problems or discoloration occur, even with proper surface preparation and application.

Safety Cautions:

Prior to using this product, consult the SDS for more information. Avoid temperatures above 38°C (100°F) or below 10°C (50°F). . Avoid prolonged breathing of vapors and repeated skin contact. Use in a well ventilated area and do not smoke while applying. Keep away from fire and open flame. Avoid contact with eyes, skin and clothing. Wear gloves and protect face during application. In case of contact with the eyes, flush immediately with plenty of water. Get medical attention promptly. If skin contact occurs, remove with alcohol and wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. Wash hands thoroughly before eating or smoking, POISONOUS IF SWALLOWED. Should **PBWW Silk-Screen Inks** be swallowed accidentally, do not induce vomiting and contact physician immediately.

Note: **PBWW Silk Screen Inks, POLYBOND 4988 Surface Conditioner** and **UC500S Thinner** are FLAMMABLE. Smoking or the use of electrical equipment that may cause sparks should be prohibited while these products are in use. Solvent soaked rags represent a dangerous fire hazard. They should be discarded in accordance with local or state safety regulations.

Warranty:

PBWW Inc. warrants that this product has been manufactured from the highest quality raw materials, under conditions to meet rigid quality standards established by **PBWW Inc.** Therefore the following is made in lieu of all other warranties expressed or implied. Seller's and manufacturer's sole obligation shall be to replace such quantity of the product proven to be defective. Neither seller nor manufacturer shall be liable for any loss or damage direct or consequential arising out of the use of or the inability to use this product. Before using, user shall determine the suitability of the product for his intended use. User assumes all risks and liability whatsoever in connection therewith. No person has authority to change these terms and there are no warranties, except as herein stated.

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