



**PRODUCT DATA SHEET**  
**KethaPol® - 3500 HS**  
 Polyurethane Clear Coat

**GENERIC TYPE:**

Two component, acrylic aliphatic polyurethane.

**DESCRIPTION:** *KethaPol - 3500 HS* is a clear coat finish that provides added UV protection over pigmented SanyChem polyurethanes. KethaPol-3500 HS is an attractive, high gloss, high solids urethane topcoat which is easily applied by spray, roller or brush. Exceptionally hard film and excellent depth-of-image provide extended service life to the SanyChem topcoats, especially when deepstone and metallic colors are used.

**FEATURES:**

- Very high gloss appearance
- Excellent flexibility
- Excellent abrasion resistance
- Excellent weatherability
- Suitable as a graffiti resistant coat
- Single coat application reduces labor costs
- VOC compliant to current AIM regulations

**RECOMMENDED USES:**

Recommended as a finish coat over pigmented polyurethanes in exterior exposures where increased chemical resistance, toughness, gloss retention and weatherability is required.

**TYPICAL CHEMICAL RESISTANCE**

	<b>SPLASH &amp; SPILLAGE</b>	<b>FUMES</b>
<b>Acids</b>	Very Good	Excellent
<b>Alkalies</b>	Very Good	Excellent
<b>Solvents</b>	Very Good	Excellent
<b>Salt</b>	Excellent	Excellent
<b>Water</b>	Excellent	Excellent

**NOT RECOMMENDED FOR:**

For Immersion service or over epoxies exposed to UV exterior

**SUBSTRATES:**

Apply over properly prepared metal or coatings as recommended.

**SPECIFICATION DATA**

- **Solids Content By Volume:** 60% ± 2%
- **VOC Values As supplied:** 2.82 lbs/gal (336 g/l)  
These are nominal values

• **Theoretical Coverage Rate per Gallon: \***

962 mil ft<sup>2</sup>. ( 23.2 m<sup>2</sup>/l at 25 microns)

641 mil ft<sup>2</sup> at 1.5 mils (15.8 m<sup>2</sup>/l at 38 microns)

\* Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

• **Temperature Resistance (Non-Immersion)**

Continuous : 200 °F ( 93 °C)

Non-Continuous: 250 °F ( 121 °C)

Discoloration and loss of gloss is observed above 200°F (93.3 °C).

• **Dry Film Thickness per Coat**

1 coat system: 1 - 2 mils (25 - 50 microns)

• **Color Standard in :** Clear

• **Gloss:** High

• **Shelf Life :** Twelve months when stored at 75 °F (25 °C)

Kethapol - 3500 HS Conveter: 6 months

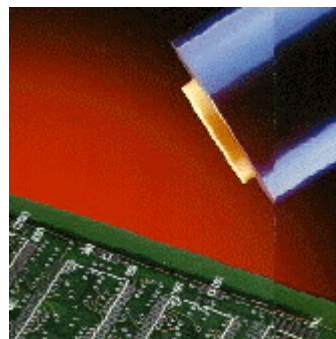
• **Storage Conditions:** Store indoors.

Temp.: 40 - 110 °F (4 -43 °C)

Humidity: 0 - 100%

**COMPATIBLE COATINGS:**

May be used over urethanes and others as recommended. Consult **SanyChem** Technical Service Department for specific recommendation.



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# APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

## Substrates & Surface Preparation

### General:

Remove any oil or grease from surface to be coated with clean rags soaked in **SolvenSany # 250** or **Surface AC Cleaner** in accordance with **SSPC-SP-1**.

**Mixing:** Mix separately, then combine in the following proportions. Allow 30 minutes induction time at 75 °F.

	<b>0.90 Gal. Kit.</b>	<b>4.5 Gal. Kit</b>
<b>Kethapol - 3500 HS P/A</b>	0.70 Gallons	3.5 Gallons
<b>Kethapol - 3500 HS P/B</b>	0.20 Gallons	1.0 Gallons

**Thinning:** Thinning not normally required. May be thinned up to 10% by volume with **SolvenSany # 306** for brush or roller application.

**Potlife:** Three (3) hours at 75 °F and less at higher temperature. Potlife ends when coating becomes too viscous to use. **Kethapol - 3500 HS** is moisture sensitive. Avoid moisture contamination.

### Application Equipment

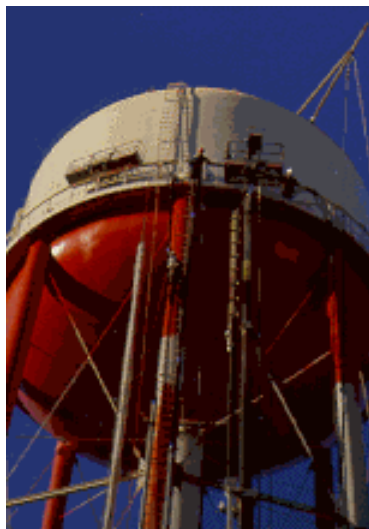
Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

**Conventional Spray :** Pressure pot equipped with dual regulators, 3/8" I.D. Minimum material hose, 0.43" I.D. Fluid tip and appropriate air cap.

**Airless Spray : Not recommended**

\*\* Teflon packings are recommended and are available from the pump manufacturer.

**Brush or Roller:** Brushing recommended only for touch-up of small areas only. Use a natural bristle brush, applying full strokes. For roller application, use a short nap mohair roller with phenolic core. Avoid rebrushing and/or rerolling.



## Application Conditions

CONDITION	MATERIAL	SURFACE	AMBIENT	HUMIDITY
<b>Normal</b>	<b>60°-85°F</b> (16°-29°C)	<b>60°-85 °F</b> (16°-29 °C)	<b>60°-85 °F</b> (16°-29 °C)	<b>40 – 60%</b>
<b>Minimum</b>	<b>50 °F</b> ( 10 °C)	<b>35 °F</b> ( 2 °C)	<b>35°F</b> ( 2°C)	<b>10 %</b>
<b>Maximum</b>	<b>100 °F</b> (38 °C)	<b>120 °F</b> (49 °C)	<b>95 °F</b> (35 °C)	<b>80%</b>

Do not apply **KethaPol-3500 HS** when the surface temperature is less than 5 °F or 3 °C above the dew point.

### Surface

Temperature	Dry to Handle	Final Cure
<b>35 °F (2 °C)</b>	<b>36 Hrs</b>	<b>14 days</b>
<b>50 °F (10 °C)</b>	<b>16 Hrs</b>	<b>10 days</b>
<b>75 °F (24 °C)</b>	<b>8 Hrs</b>	<b>7 days</b>
<b>90 °F ( 32 °C)</b>	<b>4 hrs</b>	<b>5 days</b>

These times are based on a 1.5 mil per coat dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times. Condensation on the surface or humidity during application and curing will result in a surface haze or blush.

### Cleanup & Safety

**Cleanup :** Use **SolvenSany # 250** Thinner. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

**Safety :** Read and follow all caution statements on this product data sheet and on the **MSDS** for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

**Ventilation** Vapors and/or spray mist may cause explosion. When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.



**Caution** This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and wear conductive and nonsparking shoes.

## Contact

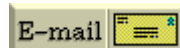


For information and Prices, Please Call a SANYCHEM Local Sales Representative.

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