

P-1045

Polyurethane Topcoat



Product P-1045 Polyurethane Topcoat

Item Class High Solid Polyurethane Topcoat

P-1045 is a two-component impact resistant polyurethane topcoat which provides high gloss and superior D.O.I. Skykote has been formulated to resist hydraulic fluids and many other chemicals. It offers excellent color and gloss retention.

Specifications Product is manufactured to meet the performance requirements of the following specifications:

BAEP 3536

Catalyst & Additives Catalyst/Activator Thinner Additive

636	CS28 (Slow Dry)	PS40 Accelerator
	CM100 (Medium Dry)	CRL25 (Rolling/Brushing)
	CF3 (Fast Dry)	
*AVAILABLE IN VARIOUS KIT SIZES		

Use of Primers Contact your local 3Chem representative for a complete list of epoxy primers which may be utilized with this system.

Surface Preparation Prepare substrate per OEM requirements. Refer to application guide for detailed instructions or contact your local 3Chem representative for assistance.

Mixing Instructions

Base	Catalyst/Activator	Thinner	Mix Ratio
P-1045	636	See Chart Below	1:1:.20

Shake (Base) for 15 minutes to assure no solid settlement remains in can. Add component B catalyst to component A paint first. Then add recommended thinner from chart below. Use of thinner depends on environmental conditions. Refer to thinner option chart below for detailed mixing information. Mix ratio for material is 1-part component A paint, 1-part component B catalyst and .20 parts thinner. (Kit including thinner should yield either 2.20 gallons or 2.20 quarts.

Induction Time Although no induction time is needed. Once mixed together, ensure that admixed material is continuously stirred for at least 5 minutes before proceeding.

Spraying Viscosity 17-19 Seconds with #2 Zahn cup,

Pot Life 7 Hours @ 21° Celsius, 70° Fahrenheit

P-1045

Polyurethane Topcoat



Film Thickness 2-3 MILS DFT (2 Coats @ 1-1.5 DFT) Wet film thickness should be 4-6 MILS total between 2 coats

Application Instructions

Temperature and Humidity	Minimum	Maximum
Temperature Celsius	11°	35°
Temperature Fahrenheit	52°	95°
Humidity	33%	74%

Spray Equipment

Spray Gun Type	Tip/Nozzle Size	Cap Pressure	Pot Pressure
Conventional Air	1.3 - 1.6 mm	40 to 60 psi	10 to 20 psi
HVLP	1.4 - 1.6mm	10 psi Maximum	10 to 20 psi
Electrostatic	1.2 - 1.5mm	45 to 60 psi	10 to 40 psi

Dry Times: ***Thinner Options for Gloss Colors Only

Temperature	Thinner	Wet-Edge	Time Between Coats	Dry to Tape	Dry to Handle	Full Cure
52-65°F (11-18°C)	CF3	40 Min	30-50 Min	5-6 Hours	7-8 Hours	6 Days
66-85°F (19-29°C)	CM100	35 Min	30-45 Min	5-6 Hours	7-8 Hours	6 Days
86-95°F (30-35°C)	CS28	30 Min	30-40 Min	6-7 Hours	7-8 Hours	6 Days

Only mix enough material to be applied on initial coat. Always add component B catalyst to component A paint then add recommended reducer based on environmental condition. Refer to thinner option chart above. Complete kit of material will yield 2.20 US Gallons (8.3 liters). 1-gallon component A paint, 1-gallon component B catalyst, 25 US oz. (739 ml) thinner.

Apply one tack coat of material using a uniform spray pattern. Wait recommend time between coats based on chart above. Initial coat should be tacky before applying second coat. Applying second coat too early will lead to possible running of material. Waiting too long will lead to a dull finish. Mix enough material to be applied on second coat. Use same mixing instruction from initial coat above.

Apply a second medium wet coat using a uniform spray pattern. Second coat must appear wet and uniform once complete. Take care not to leave any dry areas or spots. Wet these areas if necessary, to assure a uniform finish. Wait appropriate dry to tape or dry to handle time based on chart above.

Application Instructions PS40 Accelerator (Fast dry additive mix options)

PS40 Accelerator	Dry Between Coats	Dry to Handle	Dry Hard	Pot Life	Full Cure
2% By Volume	12 Minutes	2 Hours	4 Hours	4 Hours	6 Days
3% By Volume	10 Minutes	1 Hours	2.5 Hours	3 Hours	6 Days
5% By Volume	5 Minutes	30 Minutes	1 Hour	45 Minutes	6 Days

*Note: Overuse of PS40 additive may affect product gloss and finish

Force Cure: If deemed necessary oven curing is possible to reduce dry to tape and handle times. After application, allow coating to air dry for 1 hour at room temperature (75° F), then force cure for 2 hours at 120° F.

P-1045

Polyurethane Topcoat



<i>Theoretical Coverage</i>	800-900 sq. ft / gallon @ 1 mil 20-22m ² / liter @1 mil *Coverage based on 100% transfer efficiency rate
<i>Color</i>	Gray
<i>Gloss</i>	90 minimum @ 60 degrees
<i>Volatile Organic Compound</i>	340 – 390 g/l
<i>Shelf Life</i>	24 Months (When stored in climate-controlled environment between 60-80° F) *Product may be re-certified upon inspection by 3Chem.
<i>Safety Instructions</i>	Always read material safety data sheet (SDS) and product label before utilizing this product. Product SDS is available upon request.

3Chem Corporation Disclaimer

All information, recommendations, statements, and technical data contained herein are not intended to be comprehensive or exhaustive, but instead are based on tests utilizing present knowledge and current laws. The accuracy and completeness of said tests are in no way guaranteed, nor should they be construed as an express or implied warranty. We believe such information, recommendations, statements, and technical data to be reliable and accurate, but we have no control over the quality or the condition of the many factors affecting the use and application of the product. The user shall depend upon its/his/her own information, data and testing to determine whether the product is suitable for the user's intended use and the user assumes all risks and liability resulting from its/his/her use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller. All products supplied, and technical advice given is subject to our standard terms and conditions of sale. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

*Brand names mentioned above are either trademarks of or licensed to 3Chem Corporation.