



Enviro-Tuff 458 series HS Polyurethane 458 series base / 57X7040A activator

PRODUCT DESCRIPTION

Type Two-component acrylic polyurethane.

Description Enviro-Tuff 458 HS Polyurethane is a

high solids, low VOC 2K acrylic polyurethane finish formulated for exceptional weathering performance in many industrial applications. It is used where durability, color retention, corrosion resistance, and chemical and abrasion

exposure are required.

Uses
Architecturally exposed steel

Petrochemical

Oil & Gas Upstream

· Mining equipment

OEM

• Transpiration – truck and trailer

applications

Heavy duty machinery

• High solids, low VOC content

Superior Weatherability

· Impact and abrasion resistant

Chemical Resistant

SUBSTRATE & SURFACE PREPARATION

All Substrate must be clean, dry and free of

contaminants. For all substrates prime with the

specific and recommended primer.

Previously Painted Surfaces Previously painted surfaces must be clean, dry and free of oil, grease, dirt, dust or other materials which would compromise adhesion of the product to the substrate. It is recommended to abrade the existing coating to roughen and degloss the coating. Existing coatings must attain a minimum 3A rating in accordance with ASTM D3359 Measuring

Adhesion by Tape Test.

Galvanized Steel Prime with specific Sumter Coatings primer as recommended by representative. Refer to specific primer's Product Data Sheet for substrate preparation requirements.

MIXING & THINNING

Ratio 2 – components. Combine base and activator components at a 4 to 1 ratio with curing agent 57X7040A Activator. Ensure both components are

above 50°F before mixing and using.

Mix the component thoroughly before use by

boxing or with slow mechanical agitation to avoid adding air resulting in bubbles. To 4 parts base add 1 part activator 57X040A by volume. Stir to

ensure complete mixing.

Thinning Thinning is not normally needed. Add 560X1557

VOC Exempt Reducer as required to maintain VOC levels. 560X2005 Urethane Reducer can be used where VOC is not a concern for a medium reducer. Add 3-4 ounces of 480X9999 Roll-A-Glaze per mixed gallon to reduce dry spray and orange peel, if required. 480X9999 Roll-A-Glaze can be added to help add a wet edge for spraying large parts and to aid in brush and roll touch-up applications. If needed for improved drying 480X1935

Accelerator can be added at 1/2 oz. / gallon

Pot Life 4 hours sprayable @ 77°F.

Cleanup Use Wash Solvent (560X0952).

APPLICATION GUIDANCE

Application Conditions

Application of these product systems requires recommended temperature / humidity conditions and film thickness ranges. The material, booth and or site, and substrate temperature should be no lower than 50°F before, during, and after application. Do not apply paint materials to surfaces less than 5°F above dew point, or to surfaces warmer than 105°F. Ambient temperature should be minimum 50°F to maximum 105°F. Paint temperature of 60°F to 80°F will provide best performance.

Spray Th

Note

This product is high solids and can be applied by using multiple types of spray equipment including airless, air-assisted airless, and conventional and

HVLP spray.

 Conventional Spray pressure pot should have dual regulators, 3/8" (0.95 cm) ID minimum material hose, 0.07" (0.18 cm) ID fluid tip and corresponding

air cap.

Airless Spray (suggested).

a) 30:1 pressure pump b) 3.0 gallons / minutes

c) Material hose 3/8" ID

d) Tip size: 0.015-0.017" (0.038-0.043 cm)

e) Pressure: 2100-2400 psi

f) Filter: 60 mesh



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CURE TIME & RECOAT WINDOW

Substrate	Set To	Tack	To Recoat	Full
Temperature	Touch	Free		Cure
75°F (24°C)	30′	1 hour	When able to handle. Abrade after 2 weeks.	7 days

Drying times are dependent upon film thickness, temperature and humidity.

PACKAGING, ESTIMATING & HANDLING

<u>HANDLING</u>			
Product	Code	Packaging	
Enviro-Tuff 458 HS Polyurethane	458 series	1-gallon pails, 5-gallon pails, drums. Fill level dependent on color.	
Enviro-Tuff Polyurethane Activator	57X7040A	1 QT, 1gal. F-style containers, 5-gal. pails.	
Theoretical Coverage	422 ft ² / catalyzed gallon @ 2.0 mils dry film thickness, unreduced.		
Storage & Shelf Life	Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.		
Safety	Mixes and applications of this product present several hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.		
Ventilation	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.		

TYPICAL PHYSICAL PROPERTIES

Property

Typical Value

Specific properties below **Enviro-Tuff 458 HS Polyurethane** 458T1000B White Tint base. are of: Colors Multiple colors possible Gloss Gloss, 90+ units, custom glosses available Pot Life Best results are achieved when using within 4 hours of mixing. Do not use catalyzed material that has exceeded its pot life. Volume Solids 53.0% Viscosity 29-33" Zahn 3 cup for base Recommended Wet Film 4.0 - 5.0 milsThickness Recommended Dry Film 2.1 to 2.7 mils Thickness Flash Point Base is 39°F VOC 3.36 lbs. / gal. (402.6 g/L) mixed Weight / gallon 10.94 lb./gal. base component **Temperature Resistance** 275°F Shelf Life 2 years unopened and unactivated

TINTING GUIDELINES

Enviro-Tuff 458 Series 2K Polyurethane can be tinted and has been tested with 844 and 869 tint pastes. The following guideline suggests maximum tint levels of paste.

458T1000 White is short filled and will accept 4 oz. of tint paste.

 $458T3000\ Midtone$ is short filled and will accept 8 oz. of tint paste.

 $458T5000\ \mbox{Neutral}$ is short filled and will accept 12 oz. of tint paste.

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