

TECHNICAL DATA

EF78500 RTS HIGH BUILD PRIMER

Description

EF78500 RTS High Build Primer is a low temperature cure, high performance, surface tolerant epoxy primer coating. It is a two component, multi-purpose coating exhibiting high solids and low VOC with excellent chemical and rust inhibiting properties. This product is ideal for cool weather application and cures at temperatures as low as -18°C (0°F). It has improved surface wetting capabilities, providing superior surface tolerance and adhesion and can be applied directly to steel where abrasive blasting is not practical.

Mixed Coating Properties

Color	Gray Contact Guertin Representative for custom colors
Mix Ratio	1 part EF78500P1 Base 1 part EF78500P2 Activator
Mixed VOC	2.72 lbs / gal or 325 grams / litre
Mixed Volume Solids	61%
Mixed Sag Resistance	
Airless	9 - 13 mils
Air Assist Airless	9 - 13 mils
Air Spray	9 - 13 mils
HVLP	9 - 13 mils
Pot Life @ 77°F (25°C)	3 - 4 hours
Salt Spray (B1000)	1500 - 2000 hours @ 5-6 mils DFT (3 mils Primer + topcoat)
Humidity Resistance (B1000)	>1500 hrs (primer only)
Pull-Off Adhesion (blasted HRS)	>800 psi
Pencil Hardness	5H (primer only)
Theoretical Coverage	978 ft ² / gal (24.0 m ² / litre) @ 1 mil DFT

DFT = Dry Film Thickness

Product Weight - Container weight not included

EF78500P1	12.94 lbs / gallon or 1.551 kg / litre
EF78500P2	11.99 lbs / gallon or 1.437 kg / litre

Shelf Life

Shelf Life is applicable only for material stored in unopened and undamaged original factory filled containers at 39° to 100°F (4° to 38°C).

EF78500P1	1 year	EF78500P2	1 year
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Subject to reinspection. Store unused material in tightly closed containers. Contents of partially filled containers may show surface skinning after storage. If skinning forms, remove by straining before use.

BENEFITS

- ✍ low temperature cure
- ✍ corrosion resistance
- ✍ chemical resistance
- ✍ surface tolerance
- ✍ excellent adhesion

USES

- ✍ storage tanks
- ✍ oil and gas equipment
- ✍ structural steel
- ✍ pulp and paper mills
- ✍ sewage treatment plants
- ✍ marine and other heavy heavy industrial areas

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Surface Preparation

FOR APPLICATION TO BARE METAL:

Surface must be clean, dry and free from loose mill scale, weld spatter, oil, grease or other contaminants. Minimum surface preparation for steel in non-immersion service is SSPC-SP2 "Hand Tool Cleaning". For immersion service, the minimum surface preparation is SSPC-SP6 "Commercial Blast", however performance and service life is enhanced with better surface preparation such as SSPC-SP10 "Near White Blast".

FOR REPAIR APPLICATIONS:

Existing finishes should be tested for film integrity. If found to be sound, apply several test patches and inspect adhesion, lifting or wrinkling before proceeding with the project.

Mixing Instructions

- 1) Separately Pre-Mix both EF78500P1 Base and EF78500P2 Activator for 2 minutes with an air-operated Jiffy Mixer®, or equivalent, to produce a uniform consistency within their respective containers
- 2) Properly ratio material at 1:1 (by volume):
 - 1 Parts EF78500P1 Base to
 - 1 Part EF78500P2 Epoxy Activator
- 3) Mix material for 3 minutes with an air-operated Jiffy Mixer®, or equivalent, to a uniform consistency before use
- 4) No induction time required
- 5) No Thinning required
- 6) Filter through 100 mesh in line filter

Application Instructions

Application Temperature

Minimum	55°F (10°C)
Maximum	100°F (38°C)

Equipment Settings

Air Spray:	pot pressure:	10 – 20 psi
	atomizing air:	45 – 65 psi
	nozzle set:	1.0 – 1.4
Airless Spray:	fluid pressure:	2000 - 2500 psi
	tip size:	.013 - .019
Air Assist Airless:	fluid pressure:	700 - 1500 psi
	atomizing air:	20 – 60 psi
	tip size:	.013 - .019

- ⚡ Precision plural component equipment is recommended. All spray equipment including lines and filters must be kept clean at all times to avoid nozzle plugging. When hand mixing follow 'Mixing Instructions' procedures.
- ⚡ Apply in wet coats making even, parallel passes. Overlap each pass 50% to minimize holidays, bare areas and pinholes.
- ⚡ Excess wet film will cause sags and runs.

Recommended dry film thickness is 2.5 - 3.0 mils above profile. If thinners are required: *Please contact your Guertin Representative for recommendations.*

Note: Successful application requires following the recommended temperature, humidity conditions and film thickness ranges.

Recoat Window for best D.O.I.

Substrate Temp	70°F (21°C)
Over Itself	up to 30 days
With Urethane Topcoat	3.0 hours to 24 hours
With Super-Shield® Topcoat	30 minutes to 24 hours

Flash times:

Allow a minimum of 3.0 hours flash off time before applying a two-component urethane topcoat. Higher film builds (>4mils) and/or cooler temperatures will require longer flash times.

The epoxy primer can be recoated with itself up to 30 days. After 30 days the epoxy primer must be scuff sanded.

It can be topcoated with 2K urethane topcoats up to 24 hours. After 24 hours the epoxy primer must be scuff sanded.

EF78500 Primer can be topcoated with Super-Shield® Topcoats up to 8 hours. After 8 hours either scuff sand or apply a thin flow coat of primer and allow it to flash off before topcoating.

It is recommended to apply at ambient air and surface temperatures between 55° - 100°F (10° - 38°C). Apply at a relative humidity level between 33% - 85%.

Surface temperature must be at least 5°F (3°C) above the dew point to ensure that moisture condensation does not occur during application and the drying period.

Higher/lower temperatures & humidity, film thickness, improper activator range and poor air movement will affect the dry time and recoat window.

Equipment Cleanup

Clean application equipment with Guertin's SP01174T0 or SP05127T0.

Safety Precautions

FOR INDUSTRIAL USE ONLY. To be used by professionally trained personnel using proper safety equipment. Use only with adequate ventilation. Warning: this product is flammable, keep away from heat, sparks and open flame. Please refer to material safety data sheets.

Warranty

Guertin Coatings warrants its product to be free from defects in materials and workmanship and will REPLACE ANY PRODUCT PROVED TO BE DEFECTIVE, OR REFUND OF THE ORIGINAL PURCHASE PRICE OF THE QUANTITY PROVED TO BE DEFECTIVE. Requests for refund or replacement of product must be made in writing within one year from the original date of purchase. This Warranty does not apply to defects due, directly or indirectly, to misuse, abuse, negligent application, or acts of God. GUERTIN COATINGS WILL NOT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCT, INCLUDING DOWNTIME OR LOSS OF USE OF PRODUCT.

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