



ESSENTIAL PRIMER

100% SOLIDS EPOXY MOISTURE
RESISTANT PRIMER SYSTEM

PRODUCT DESCRIPTION

Essential Primer is a 100% solids, two component, cyclo-aliphatic epoxy primer system used as a base coat for high performance coatings. Essential Primer has phenomenal bond strength and reduces water vapor transmission allowing a successful bond where other products fail. Essential Primer is very user friendly and may be used with concrete flooring systems that use color, metallic, chips and quartz.

FEATURES AND BENEFITS

- ◆ Excellent long term wear capabilities
- ◆ Excellent chemical resistance
- ◆ Excellent resistance to stain

TYPICAL APPLICATIONS

ESSENTIAL PRIMER is an excellent base coating for before using Epoxy HP or other finish coatings in areas such as service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks, animal kennels/clinics and other areas where high performance, abrasion resistance and chemical resistance are required. Also an excellent coating choice for interior decorative concrete

TECHNICAL INFORMATION

Abrasion Resistance.....	36.1 mg loss
<small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small>	
Gloss 60	88
Flexibility (1/8" Mandrel).....	Pass
Hardness - Shore D.....	74
Compressive Strength @ Yield (psi).....	11,200
Tensile Strength (ASTM D638).....	6400
Elongation.....	10%
Solids % Weight (Federal Spec. TTP-141B).....	100%
Density lbs/Ga. (Federal Spec. TTP-141B).....	9.11
VOC	< 5 grams per liter

Mix Ratio (a/b volume).....	2 to 1
Coverage.....	90 - 100 square feet per gallon @ 16 - 18 mils
Viscosity.....	400-600 cps
Pot Life.....	20 - 30 minutes
Dry Time-Set to Touch (50% R.H. @ 72 F).....	4-6 hours
Dry Time-Recoat (50% R.H. @ 72 F).....	8-12 hours
Dry Time-Light Traffic (50% R.H. @ 72 F).....	14 - 18 hours
Dry Time-Full Cure (heavy traffic) (50% R.H. @ 72 F).....	2 - 5 days
Application temperature.....	55-90 degrees F
Perm rating	0.075 perms @30 mils thickness

Butanol.....	8 hr
Xylene.....	8 hr
1,1,1 trichloroethane.....	2 hr
Methanol.....	1 hr
Gasoline.....	8 hr
Skydrol B-4.....	2 hr
Ethylene Alcohol.....	8 hr
MEK.....	1hr

10% Sodium Hydroxide.....	24 plus
50% Sodium Hydroxide.....	24 hr
10% Sulfuric Acid.....	8 hr
70% Sulfuric Acid.....	1 hr
5% Acetic Acid.....	2 hr
10% HCl (aq).....	8 hr

Rating key: Time before physical effect

**** A chemical exposure test should always be performed prior to application resistance to ensure satisfactory results are obtainable.**

COVERAGE

Application Surface	First Coat Optional	Second Coat
New (unsealed) concrete	125-175 ft ²	same

*Coverage rates vary depending upon surface porosity and texture, and application thickness.

**Please refer to application instructions for proper application of second coat.

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INSTRUCTIONS

SURFACE PREPARATION: A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 3 to a CSP - 5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. Essential Primer is designed to reduce moisture transmission which causes many products to fail. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If applying to an existing fully cured and fully adhered coating, the surface must be cleaned and sanded with 80—100 grit sandpaper. Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats.

PRODUCT MIXING: Pour a full pre-packaged kit of **2 parts of Part A to 1 part of Part B** together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

PRODUCT APPLICATION: Apply the mixed material with a brush, roller, trowel, notched squeegee or gauge rake and then backroll evenly to maintain the desired thickness within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. **Do not leave mixed product sitting in a bucket, pour all out on surface.** If concrete conditions or aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent streaking. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle!

Apply the topcoat product within 24 hrs of the Essential Primer to ensure proper bonding.

PLEASE NOTE: Applying ESSENTIAL PRIMER outside of the suggested parameters may result in job failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

CLEAN-UP AND REMOVAL

Use MEK. Dispose of containers in accordance with local and federal regulations

.Dried, cured epoxy may be removed by chemical means including sanding, shot blasting, etc.

PRECAUTIONS AND LIMITATIONS

- ▶ All new concrete must be cured for at least 28 days prior to application.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- ▶ **ESSENTIAL PRIMER** may darken the surface of many new and existing concrete substrates. Test prior to use.
- ▶ Physical properties listed on this technical data sheet are typical values not specifications.

• Essential Primer is designed to provide a tenacious bond in situations where the surface history is unknown or where vapor transmission is problematic. There is no Guarantee, implied or written, that Essential Primer will bond to every surface or is fail proof..

• If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Walttools and it's affiliates offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

NOTES

Please consult Safety Data Sheet (SDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 815.941.4215.