



# EPOXY-HP

100% SOLIDS EPOXY SYSTEM

## PRODUCT DESCRIPTION

**Epoxy HP** is a 100% solids, two component, cyclo-aliphatic amine epoxy system with excellent durability including abrasion resistance, chemical resistance and hot tire resistance. Epoxy HP is a user friendly high performance concrete flooring system that can be used with color, metallic, chips and quartz. New formula is designed for a more user friendly pot life, superior bonding and excellent flattening characteristics.

## FEATURES AND BENEFITS

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

## TYPICAL APPLICATIONS

**EPOXY HP** is designed for a variety of seamless high build concrete flooring applications. It is an excellent coating for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks 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.....  | 28.1 mg loss        |
| <small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small> |                     |
| Gloss 60 .....  | 90-95               |
| Flexibility <sup>(1/8" Mandrel)</sup> .....                                       | Pass                |
| Hardness - Shore D.....   | 82                  |
| Compressive Strength @ Yield (psi).....   | 11,200              |
| Tensile Strength (ASTM D638).....   | 6200                |
| Elongation.....   | 7%                  |
| Solids % Weight <sup>(Federal Spec. TTP-141B)</sup> .....                         | 100%                |
| Density lbs/Ga. <sup>(Federal Spec. TTP-141B)</sup> .....                         | 9.32                |
| VOC .....   | < 5 grams per liter |

|  |  |
|--|--|
| Mix Ratio <sup>(a/b volume)</sup> .....  | 2 to 1   |
| <small>** 19.33# part A (2.0 gallon approximate) to 8.66# part B (1 gallons approximate)</small> |  |
| Coverage.....  | 90 - 100 square feet per gallon @ 16 - 18 mils |
| Viscosity.....   | 400-600 cps                                    |
| Pot Life.....  | 30 - 45 minutes                                |
| Dry Time-Set to Touch <sup>(50% R.H. @ 72 F)</sup> .....   | 6 - 8 hours                                    |
| Dry Time-Recoat <sup>(50% R.H. @ 72 F)</sup> .....   | 10 - 16 hours                                  |
| Dry Time-Light Traffic <sup>(50% R.H. @ 72 F)</sup> .....  | 14 - 18 hours                                  |
| Dry Time-Full Cure (heavy traffic) <sup>(50% R.H. @ 72 F)</sup> .....                            | 2 - 7 days                                     |
| <b>Application temperature.....</b>  | <b>55-90 degrees F</b>                         |

|                            |      |
|----------------------------|------|
| 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 |
|---------------------|---------------------|-------------|
| (unsealed) Concrete | 75 -175 ft same     | 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. Use of Waltools Essential Primer is designed to reduce moisture failure. **Epoxy HP** is designed to be applied only to primed surfaces within the recommended re-coat window of the primer or previously sealed surfaces that have sufficient adhesion to the substrate. 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. If multiple coats of **EPOXY HP** are required apply the second coat as close as possible to the suggested re-coat time (see technical information section on this data sheet). Do not exceed 24 hours to re-coat or a light sanding may be needed for adequate adhesion between coats.

**PRIMING:** Prime the surface with Essential Primer or 1040 Bond Coat. Refer to the 1040 Bond Coat and Essential Primer technical data sheets for application information.

**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! If recoating after 24 hours, a light sanding, using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying EPOXY HP 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.
- ▶ **EPOXY HP** 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.

••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. Waltools 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.