



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

DURAGUARD 120

100% SOLIDS HIGH BUILD EPOXY COATING



P R O D U C T D A T A

DESCRIPTION

Duraguard 120 is a two component, 100% solids, high build epoxy coating system designed for application at 15-20 mils.

USES

- **Duraguard 120** is a topcoat over a primer in areas subject to moderate wear and / or moderate chemical attack
- **Duraguard 120** is available in many colors to provide a decorative easy to maintain floor in commercial establishments
- **Duraguard 120** is used as a sealer coat for a trowel down epoxy system
- **Duraguard 120** is available in a non-sag formulation (**Duraguard 120V**) for application on vertical surfaces

ADVANTAGES

- Moderate resistance to chemical spills, fumes or immersion, oils, grease
- Resistant to most acids, alkalis, solvents and gasoline
- Withstands temperature extremes without cracking or peeling
- Excellent adhesion, flexibility and durability
- Fills and hides minor surface imperfections, bridges hairline cracks
- Color fast, high gloss finish
- May be topcoated with an aliphatic or moisture cure urethanes for enhanced gloss, chemical and wear resistance

TECHNICAL DATA

V.O.C. Content: 0 gm/L

USDA approved for incidental contact in federally inspected meat and poultry plants.

Dry film thickness per coat 15-20 mils

Appearance High gloss

Pot Life @ 70°F (21°C) 30 minutes

Drying Time @ 75°F (24°C) with 50% R.H. 8 hours

Tack free time 8 hours

Recoat Time 8-24 hours

Light or moderate foot traffic 12 hours

Wheeled traffic 2 days

CHEMICAL RESISTANCE

Acids Concentration

Acids	Concentration	Comments
Acetic	5%	Fumes & Spills
Citric	-	Immersion, Fumes & Spills
Hydrochloric	30%	Fumes & Spills
Lactic	10%	Immersion, Fumes & Spills
Sulfuric	10%	Immersion, Fumes & Spills
Sulfuric	90%	Fumes & Spills
Fatty Acids	-	Immersion, Fumes & Spills
Chromic	-	Fumes & Spills
Phosphoric	10%	Fumes & Spills

Alkalies

Alkalies	Concentration	Comments
Ammonia	10%	Fumes & Spills
Caustic Salts	-	Immersion, Fumes & Spills
Detergents	various	Immersion, Fumes & Spills
Sodium Hydroxide	50%	Immersion, Fumes & Spills
Sodium Hypochlorite	10%	Immersion, Fumes & Spills

Solvents

Solvents	Cure Time	Comments
Acetone	(7 day cure)	Fumes & Spills
Ketones	(7 day cure)	Fumes & Spills
Aliphatic Hydrocarbons		Immersion, Fumes & Spills
Aromatic Hydrocarbons		Immersion, Fumes & Spills
Carbon Tetrachloride		Fumes & Spills
Gasoline		Immersion, Fumes & Spills
Xylene		Immersion, Fumes & Spills

Salts

Salts	Concentration	Comments
Metals salts, various	10%	Immersion, Fumes & Spills

Consult ChemMasters for compounds not noted above or for exposures in excess of those listed.

Maximum Temperature Limits

Dry Heat	250°F (121°C)
Spills	150°F (66°C)
Immersion	150°F (66°C)
Cold	- 40°F (-40°C)

At temperature from 60°-80°F (16-27°C)

Intermediate chemical exposure 2 days

Maximum chemical resistance 7 days



ChemMasters

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SYSTEM ESTIMATING GUIDE

	Ft. ² /gal	M ² /L	mils
PRIMER: Duraguard 100	200	5	8
COATING: Duraguard 120	80-110	2-2.7	15-20

QUARTZ BROADCAST: Requires one coat of **Duraguard 120** at 15-20 mils with broadcast of 0.75 lbs (0.34 Kg) per Ft.² colored quartz aggregate followed by second coat of **Duraguard 120** Clear at 15-20 mils.

SEEDED FLOOR SYSTEM: Requires one coat of **Duraguard 120** at 15-20 mils, seeded with 30-40 mesh round sand at 0.75 lbs (0.34 Kg) per Ft.². Allow to dry overnight then remove excess sand. Apply second coat of **Duraguard 120** and sand as before. When second seed coat is dry and excess sand has been removed, topcoat with colored **Duraguard 120**.

DIRECTIONS

SURFACE PREPARATION: **Duraguard 120** is not applied directly to concrete. **Duraguard 120** is applied over a primer coat of epoxy or over properly prepared older epoxy. **Duraguard 120** must be applied after the primer is tack free but within 24 hours of the primer application to avoid any surface preparation on the primer. For applications beyond this window, the primer (or other previous coats of epoxy) must be cleaned of all dirt, grease and oils and then sanded or screened prior to **Duraguard 120** application. Immediately prior to application a solvent wipe of the floor is recommended to remove all dust. The floor must be dry.

Minimum surface temperature for application is 60°F (15°C). For optimum results, ambient temperature should be between 60°F (15°C) and 90°F (32°C) during application and throughout curing process.

MIX RATIO: 3 Parts A Resin: 1 Part B Hardener

MIXING: **Duraguard 120** must be mixed with a drill equipped with a jiffler type blade. Pour all of the Part B Hardener into the Part A Resin and mix thoroughly at a low RPM speed for 2-3 minutes. Avoid excessive contact of the jiffler blade with the inside of the plastic pail to eliminate plastic particles in the mixed material. Use within 30 minutes of mixing.

Note: Disperse mixed material rapidly. If product is left in mixing container in a large mass, the

working time is drastically reduced.

APPLICATION: Pour the mixed **Duraguard 120** onto the tack free primer or prepared epoxy coating and spread to a uniform depth and appearance using a short nap, solvent resistant roller. Place material in strips or sections that are reached easily with the length of roller handle in use.

RECOAT: When using **Duraguard 120** as the wearing surface in chemical environments, two coats are advised. Allow first coat to dry tack free, 6-8 hours, before applying topcoat.

CLEANUP

Clean tools and equipment before material dries with xylene, xylol or glycol ether PM acetate.

LIMITATIONS

- Avoid applying any polymer coating in direct sunlight during times of extreme heat. This can cause wrinkling, pinholes and blistering. Application should be scheduled for early morning or late afternoon when ambient and substrate temperatures are at their lowest.
- Do not apply in the presence of foodstuffs. USDA approval pertains to fully cured material only.
- **Duraguard 120** is not formulated for immersion or primary containment of highly aggressive chemicals. Consult ChemMasters technical service staff for alternate product recommendations.
- When surrounding conditions are damp or humid, surface should be examined after primer coat and between subsequent topcoats for blush, an oily film, which must be removed by washing with warm water and detergent.

STORAGE

Store unmixed material in tightly closed containers at standard room temperatures of 50°F (10°C) to 80°F (27°C). Do not place in direct sunlight or near sources of heat. Shelf life of properly stored material is one year from date of manufacture.

CAUTIONS

Corrosive liquid: Corrosive to eyes. Causes skin irritation, sensitization or chemical burns. Respiratory tract irritant. Use with adequate ventilation. Do not take internally. Keep out of reach of children.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.