

## **Dur-A-Flex, Inc.**

95 Goodwin St.  
East Hartford, CT 06128  
1-800-253-3539

## **DUR-A-TEX POLYACRYLATE UNDERLAYMENT**

### **DESCRIPTION**

***DUR-A-TEX POLYACRYLATE UNDERLAYMENT*** is comprised of a special acrylic modified Portland cement mortar that is trowel applied at a 1/8" to 3" thickness. It protects new floors and repairs old floors because it can be applied as thick as necessary to fill and level holes, eroded areas, cracks, etc. The Dur-A-Tex surface is very hard, seamless, long wearing, and has good chemical resistance. It can be left "as is" (not sealed) where a cementitious appearance is acceptable or it can be sealed or top coated to provide special chemical or solvent resistance, color and special decorative effects. Dur-A-Tex #32 is a special one-component acrylic polymer additive for various types of masonry mortars. It enhances the workability, curing process and physical characteristics when used as directed.

### **BENEFITS**

- High Bond Strength
- Chemical Resistance
- Resilient
- Shock Resistance
- High Compressive Strength
- Frost & Weather Resistant

### **TYPICAL USES**

- Concrete Patching
- Underlayment
- Wood Block Replacement

### **CHEMICAL RESISTANCE**

Mortars and grout made with Dur-A-Tex #32 perform well in areas exposed to sugar, lactic acid, fruit juices, food waste, urine, brine, diluted chemicals and solvents, detergents, etc. They are not recommended for areas with concentrated acids, strong solvents, etc. Especially if exposed to continuous use.

### **PHYSICAL PROPERTIES**

Working time of Dur-A-Tex Mortar at  
90°F... 30 - 60 minutes  
70°F ... 1-1/2 hours  
55°F... 2 - 3 hours  
Density of Dur-A-Tex Mortar... 120 lbs. per cubic foot  
Adhesion to Concrete... 300 psi  
Ozone Resistance, 200 hrs. At 200 ppm... No effect  
Storage Life, unopened containers... 1 year  
Weight per Gallon... 8.6 lbs.  
Appearance... Milky white liquid

### **PACKAGING**

Dur-A-Tex #32 is packaged "ready to use." Simply add it to Portland cement/sand until a desirable, low slump consistency is obtained. It is used in place of the water normally used.

#### **LIMITATIONS**

1. Keep liquid from freezing at all times.
2. Shake container before using.

***Before using any Dur-A-Flex, Inc. product, be sure the Material Safety Data Sheet is read and understood.***

#### **SECTION 09670 or 09700**

#### **PART 1 GENERAL**

##### **1.01 SCOPE**

- A. Provide all labor and materials for a seamless, trowel applied, latex modified concrete and epoxy woodblock replacement material, including all surface preparation, primers, and finish coats.
- B. Related work specified elsewhere:
  1. Concrete - Division 3
  2. Thermal & Moisture Protection - Division 7

##### **1.02 ACCEPTABLE MANUFACTURER AND INSTALLER**

- A. DUR-A-FLEX, Inc. 1-800-253-3539
- B. Manufacturer approved Installer, who has technical qualifications, currently certified in writing, and facilities to install specified systems.

##### **1.03 DELIVERY AND STORAGE**

- A. Material shall be delivered to job-site in clean, clearly labeled containers and inspected by installer prior to start of job.
- B. Material shall be stored in a dry, enclosed area protected from the elements. Temperature of storage area shall be kept between 60° and 90°F.

##### **1.04 ENVIRONMENTAL REQUIREMENTS**

- A. New concrete shall be cured no less than 28 days under good conditions. Concrete subfloors on or below grade shall be properly equipped with vapor barriers and perimeter drains.
- B. Adequate utilities, including electric, water, heat (between 60° and 90°F) and lighting of no less than 80 ft. candles measured at floor surface to be supplied by Owner/General Contractor.

**SPECIFIER NOTE: Heat and light are extremely important parts of the installation. Usually these utilities are functioning before epoxy finishes are scheduled for installation, however in some cases the epoxy coating shall be installed prior to equipment, fixtures and even walls in some cases. Lack of these necessities can and will spoil a good installation. Without heat the curing process can be extended or even stopped. Without adequate light even the best mechanic cannot provide a quality finish.**

- C. Work area shall be free of other trades during, and for a period of 24 hours, after floor installation.
- D. Protection of finished floor from damage by subsequent trades is the responsibility of [Installer] [Owner] [General Contractor].

##### **1.05 WARRANTY**

- A. Contractor to submit a [one] year warranty against defects in material and workmanship upon

completion of installation.

## **PART 2 PRODUCTS**

### **2.01 PRODUCT DESCRIPTION**

[2"] DUR-A-TEX multiple-component, heavy duty, trowel applied, Industrial flooring systems as manufactured by DUR-A-FLEX, Inc. **1-800-253-3539.**

### **2.02 PHYSICAL PROPERTIES**

**[Insert technical data from the appropriate product data sheet]**

### **2.2 PRODUCT PACKAGING**

A. All materials used shall be precision mixed on site with manufacturer supplied mix and measure apparatus to ensure a timely, accurate mix ratio and minimize waste.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

A. Concrete preparation to include use of [a steel shotblast machine] [a solution of muriatic acid] to create a profiled substrate, combined with "dust-free" diamond grinding for all edges and areas where shotblast machine is unable to reach.

**SPECIFIER NOTE: For maximum bond strength, steel shotblasting is always recommended. See "Preparation/Application Details" Showcase for details on specific substrates.**

### **3.02 PRODUCT INSTALLATION**

- A. Floor installation shall strictly adhere to manufacturer's current written instructions.
- B. Over properly prepared concrete apply one coat Dur-A-Tex #32 at 200 sq. ft. per gallon.
- C. Over wet primer, screed and trowel apply Dur-A-Tex #32 at desired thickness.
- D. Grind surface to remove trowel marks, imperfections and latex "skin."
- E. Completely clean surface to remove dust and debris.
- F. Apply flood coat of Dur-A-Glaze #4 Damp Primer at a rate of 100 sq. ft. per gallon and let cure.
- G. Broadcast Q28 Colored Quartz at approximately 1/2 lb. per sq. ft.
- H. Let cure hard. (Cure times vary depending on hardener selection, from 2 to 10 hours) and sweep up excess sand.
- I. Apply Dur-A-Glaze #4 at approximately 100 sq. ft. per gallon.
- J. Broadcast Q28 Colored Quartz at approximately 1/2 lb. per sq. ft.
- K. Let cure hard and sweep up excess sand.
- L. Apply first top coat of Dur-A-Glaze #4 at 100 sq. ft. per gallon.
- M. Let cure hard.
- N. Apply second topcoat of Dur-A-Glaze #4 at 200-250 sq. ft. per gallon.
- O. All debris shall be properly disposed of.

**SPECIFIER NOTE: DUR-A-TEX underlayment is a combination of latex binder, Portland cement and sand. As a woodblock replacement or as a resloping system it shall be topped with a tougher material. Here a 100% solids epoxy and Q28 colored aggregates have been specified. Selecting the proper type of epoxy will require some owner input. Specify DUR-A-GLAZE #4 REG - for general use, UV - for exterior or areas with high intensity lighting, Kitchen - for areas subject to thermal shock and boiling oils, CR4 - for moderate chemical resistance, Novolac - for harsh chemical resistance and constant heat exposure.**

**PERFORMANCE TOPCOATS can be specified to increase cleanability, gloss retention, chemical resistance, stain resistance. (See “High Performance Topcoats” Snapshot.)**

**3.03 DETAILS**

- A. Moving cracks and joints shall be thoroughly routed and vacuumed clean, then filled with DUR-A-FILLER #2.
- B. Surface deviations to be pre-patched with patching compound comprised of DUR-A-GLAZE #4 and No-Sag #2 or Q28 Quartz.
- C. A 4" integral cove base to be installed at perimeter walls.
- D. Prime surface with Elast-O-Coat membrane as per manufacturer's recommendation.