



# Dura

## Bonding Agent & Admixture

### DESCRIPTION

**Dura** is a styrene butadiene concrete bonding agent and admixture that is specifically formulated to increase the flexural, bond and compressive strength of modified mixes. Both lab testing and field applications show increased performance in these key areas. Increasing these performance characteristics provides a more durable, long lasting repair. While traditional types of bonding agents (Acrylic, PVA, EVA) definitely improve the performance characteristics of patching mortars, **Dura** utilizes innovative technology to surpass these common materials. **Dura** can be used as an admixture to enhance adhesion of cementitious mortars as well as improve resistance to oil, water, salt and chemical penetration. **Dura** exhibits excellent resistance to freeze/thaw cycles and can be used for interior or exterior applications.

### USES

**Dura** is ideal for bonding new concrete to new concrete or new concrete to old concrete in interior or exterior applications.

**Dura** is specifically designed for use with cementitious compositions such as patching materials, grouts, masonry coatings, stucco coatings and masonry mortars to increase chemical resistance and performance.

### BENEFITS

- Durable: Increase tensile strength, flexural strength and chemical resistance over non-modified mortars
- Curing: Increase water retention properties
- Excellent Bonding Agent: Superior adhesion properties
- Freeze/Thaw Resistance: Increased resistance to dramatic climatic changes

### STANDARDS

**Dura** meets and exceeds the requirements of ASTM C1059, Type I and II for Latex Bonding Agents.

### SURFACE PREPARATION

All surfaces in contact with **Dura** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bondbreakers. All unsound concrete should be removed to ensure a good bond. Smooth, dense surfaces need to be mechanically abraded to provide necessary bonding requirements. If mechanical abrasion is needed refer to ICRI Guideline 310.2 for proper surface preparation methods. Substrate shall be dry. Always apply a test patch. Maintain contact areas between 40°F (4°C) and 90°F (32°C) prior to repair and during initial curing period.

### PHYSICAL PROPERTIES

Complies with National Volatile Organic Compound Emission Standards.

Appearance	Milky White Liquid
Solids Content	12.5%
pH	9.0
Specific Gravity	1.01
Lbs / Gal	9.0
Freeze/Thaw Stable	Yes
Dry Time	20 minutes @ 70°F (21°C)

Property and Test Method	Results	
Bond Strength ASTM C1042	Condition	14 Days
	Type I	1,700 psi (11.72 MPa)
	Type II	1,300 psi (10.46 MPa)

### MIXING

For best results, mix thoroughly before each use. Do not over agitate or use high speed mixing equipment. Stir **Dura** to a uniform blend when combined with water. When batching with **Dura**, always premix both the dry ingredients (sand and cement) and the wet ingredients separately. Next, slowly blend the dry ingredients into the wet ingredients to form a mortar of desired consistency.

### PLACING

As a bonding agent for patching compounds, apply with a low pressure sprayer, brush or roller at a rate of 300 ft<sup>2</sup>/gal when diluted 1:1 with cool, clean potable water. A hand held pump sprayer or an airless industrial sprayer is acceptable. Apply evenly without puddling. Apply patch while **Dura** is still tacky.

### STORAGE

Protect from freezing. Store material in an interior, cool, dry place above 40°F (4°C). Shelf life is one year in original, unopened container.

### CLEAN-UP

Clean tools and equipment with warm, soapy water. After material has dried, it may be necessary to use solvents such as mineral spirits, toluene or xylene.

### LIMITATIONS

In addition to the limitations already mentioned, please note the following. Do not apply when the surface or ambient temperature is below 40°F (4°C) or expected to fall below 40°F (4°C) within 48 hours. High humidity and excessive moisture will retard curing time of **Dura** modified mixes.

**Packaging: 1 gal (3.8 L) jug, 5 gal (18.9 L) pail, 55 gal (207.9 L) drum**



# Dura

## Bonding Agent & Admixture

### **WARNING**

Causes serious eye irritation; causes skin irritation. Wear protective gloves and eye/face protection. Wash with plenty of water and soap thoroughly after handling. Avoid inhalation of vapors. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area.

### **FIRST AID**

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: call a poison center or doctor/physician. If swallowed: contact a poison control center/doctor if you feel unwell. Rinse mouth. If on skin: wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice. Take off contaminated clothing and wash it before reuse.

### **MANUFACTURER/TECHNICAL SERVICE**

Contact your US SPEC manufacturer's representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets, available online at [www.usspec.com](http://www.usspec.com).

US MIX Co.  
112 South Santa Fe Drive  
Denver, CO 80223  
Tel: 303.778.7227 Fax: 303.722.8426  
Web Site: [www.usspec.com](http://www.usspec.com)

**NOTICE OF LIMITED WARRANTY** US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price. See product packaging for complete limitation of warranties and liability.