



## DURAPAIR

SBR polymer Admixture/Cementitious Waterproofing/Protection/Repair

### Description :

**DURAPAIR** is a cementitious SBR polymer milky liquid admixture for concrete repair, waterproofing treatment, bonding purpose, fixing slip bricks, tiles and coping. The application of cement modified with styrene butadiene rubber has been in use for over 25 years demonstrating the viability and long term performance of the material.

### Uses :

**DURAPAIR** is extensively used as a polymer modified to concrete repair/patch repair, waterproofing treatment, fixing slips bricks, tiles and copings, floor screeds and toppings etc. **DURAPAIR** is an excellent polymer for any construction site, to be used as a bonding agent on cold joints and in a surface, where new layer of cement bound mixes would be used. It is also used as cement polymer slurry waterproof coating.

### Features :

- Over 25 years tested material.
- Most versatile polymer to be used with cement.
- Highly durable waterproof cementitious- **DURAPAIR** system against UV.
- Resilient but tough material for its superb bonding and abrasion resistance property.
- Resistant to many chemicals.
- **DURAPAIR** SBR polymer concrete overlay for bridge deck, is continuously being accepted for 25 years.
- Quality product-produces under rigid quality control. Breathable polymer-cement composite.

### Application :

Surface should be clean and free from dirt and dusts, oils and grease. Before application of **DURAPAIR** cement composite, all surfaces should be saturated surface dry.

#### a) Typical Proportions for bridge deck overlay/m<sup>3</sup>

53Grade OPC	:	300	kg	Slump	:	25mm-40mm
Sand Zone III	:	775	kg	Compressive ST, kg/cm <sup>2</sup>	:	300-350
CA (5/15mm)	:	1000	kg	% Air	:	5%
Durapair	:	80	kg	Fresh weight Density	:	3250kg/m <sup>3</sup>
Water	:	95	Ltrs	Yield	:	0.98m <sup>3</sup>

#### b) Typical proportions for Durapair/Cement sand mortar/m<sup>3</sup>

53Grade OPC	:	495	kg	Fresh weight Density	:	2100kg/m <sup>3</sup>
Sand Zone III	:	1360	kg	Yield	:	105m <sup>3</sup>
Durapair	:	112	kg			
Water	:	136	Ltrs			

#### c) Bonding Agent/Durapair/Cement

53Grade OPC	:	1.75	kg	Durapair	:	0.50kg
Zone II sharp sand	:	1.75	kg	Coverage	:	2.5 to 2.8 m <sup>2</sup>

**Waterproof Cement Slurry**

53 Grade OPC : 2kg  
 Durapair : 0.50kg  
 Water : 0.50kg  
 Coverage : 1.5 to 1.8 m2  
 For 1mm Thickness

**Injection Grouting Polymer/Cement**

53 Grade OPC : 2kg  
 Durapair : 0.5kg  
 Water : 0.5kg  
 Yield : 1.5 Ltr

**Corrosion Protection Cement Polymer Slurry**

53Grade OPC : 2kg  
 Durapair : 1kg  
 Coverage : 1.5 to 1.7m2 for 1.2mm thickness

**Technical Data :**

Durapair : SBR milky white polymer  
 PH : 8-9

Typical test result of mix as in (b) with and without polymer in which water in place of Durapair Polymer is issued.

	Mix details as in (b) Without Durapair Polymer	Mix details as in (b) with Durapair Polymer
Flow %(20drops)	: 75	80
Density, kg/m <sup>3</sup>	: 2110	1010
Setting Time(h:min)		
Initial	: 3.00	6.50
Final	: 5.00	7.50
Compressive Strength, kg/cm <sup>3</sup>		
7d	: 180	250
28d	: 210	350
Flexural Strength, Kg/cm <sup>2</sup>		
7d	: 28	52
28d	: 32	70
Tensile Strength, kg/cm <sup>2</sup>		
7d	: 15	31
28d	: 17	36
Water absorption %		
7d + 1d immersed	: 5.6	0.2
7d + 7d immersed	: 6.4	0.2
Abrasion, (gm lost)		
7d	: 100	17.2
28d	: 107	32.8
Adhesive Strength, kg/cm <sup>2</sup>		
7d	: 2.6	5.7
Dilution with water	: 1:1 to 1:4 by weight	
Minimum film forming temp.	: 1 <sup>o</sup> C	
Shelf Life	: 18 months if kept in original packing under shed.	
Storage	: Keep it in a cool place .	
Packing	: 5 Kg , 25Kg, 200 Kg Containers	
Health and Safety	: Non-toxic, Non-flammable, Eco-friendly	

**DURA**®



**IMPORTANT:** Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

**WARRANTY:** Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

**HEAD OFFICE:** 104-106, Dimension Deepti Plaza, Plot No-3, LSC, Pocket-6, Nasirpur, Dwarka, New Delhi-110045.

Phone No.: 011-25050236, 011-25050237, Fax No.: 011-25050238

E-mail: admin@durabuildcare.com, sales@durabuildcare.com, Website: durabuildcare.com