

# Duraback

**Duraback** is a high-strength liquid epoxy with the requisite resiliency and strength designed to withstand compressive and axial forces generated by crushers and mills.

## Features

- High compression and Impact strength
- Excellent chemical resistance against water, oil, grease, detergents, diluted acids and alkaline.
- Excellent resistance to solvents, aliphatic alcohols and aromatics; against esters, ketones and chlorinated hydro-carbons.
- Easy to pour and apply with appreciable penetration even at lower temperature.
- Exceptionally very low shrinkage
- Low exothermic reaction
- 100% solids - no solvents

## Applications

Typical applications include lining of primary and secondary cone crushers as also grinding mills. Other applications are in bonding, filling, fastening, grouting of holding bolts and mould making.

## Specifications

Properties	Duraback
Colour	Brownish Red
Density	1.94 g / ml
Coverage	20 in <sup>3</sup> / kg
Mix Ratio (by weight)	3.3:1
Mix Ratio (by volume)	2.2:1
Number of Coats	1
Working Time	20 minutes
Max Dry Operating Temperature	250 °F (121 °C)
Dry to Touch (in hours)	1
Recoat Time	Min. - 1 hour & max. 4 hour
Functional Cure (in hours)	8
pH Range	2.0 - 14
Cured Hardness	92D ASTM D 2240
Adhesive Tensile Shear	2,000 psi ASTM D 638
Compressive Strength	13,880 psi ASTM D 695
Modulus of Elasticity	9.2 psi x 10 <sup>5</sup> in. ASTM D 638
Flexural Strength	8,558 psi ASTM D 790
Coefficient of Thermal Expansion	22 [(in.) X (in. X °F)] x 10 <sup>-6</sup> ASTM D 696
Izod impact strength	1.3 ft lb / in ASTM D 2566
Shrinkage after cure	0.001 in / in ASTM D 2566
Shelf Life	12 months (under dry & cool conditions)

## Mixing Instructions

- It is strongly recommended that full units be mixed as per pre-measured ratios
  1. Add Activator to Base.
  2. Mix thoroughly with some tool until a uniform, streak-free consistency is obtained.

Sizes 10 kg, 20 kg : Use a propellar type Jiffy Mixer Model ES on an electric drill. Mix until colour is uniform and consistent.

**Note:** Keep propeller below liquid line, as additional air can be added to mixture, resulting in air bubbles on the surface of the finished product.

## ***Application Instructions***

When pouring **Duraback**, observe the following guidelines:

- Thoroughly mix **Duraback**, then immediately pour into designated area, allowing **Duraback** to fill the cavity and push air away from the pour.
- Use a dam (plastic, cardboard, clay or tin) to seal areas and direct flow of the compound to the specified area.
- Any unmixed Base (different colour) clinging to the sides and / or bottom of the pail should NOT BE poured into the crusher, as it may not harden.

### ***Additional Information***

- **Duraback** may be mixed and poured individually as needed.
- **Duraback** will adhere to itself.
- Applying epoxy at temperatures below 40 °F lengthens functional cure and pot life times. Conversely, applying above 40 °F shortens functional cure.
- **Duraback** fully cures in 24 hours, at which time it can be machined, drilled or painted.

## ***Packaging***

10 kg / 20 kg

X'tra life to your wearprotecomponents



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