



# BDC 76 – Technical Data Sheet

## A Formulated Polyetherpolyamine Flexible Curing Agent

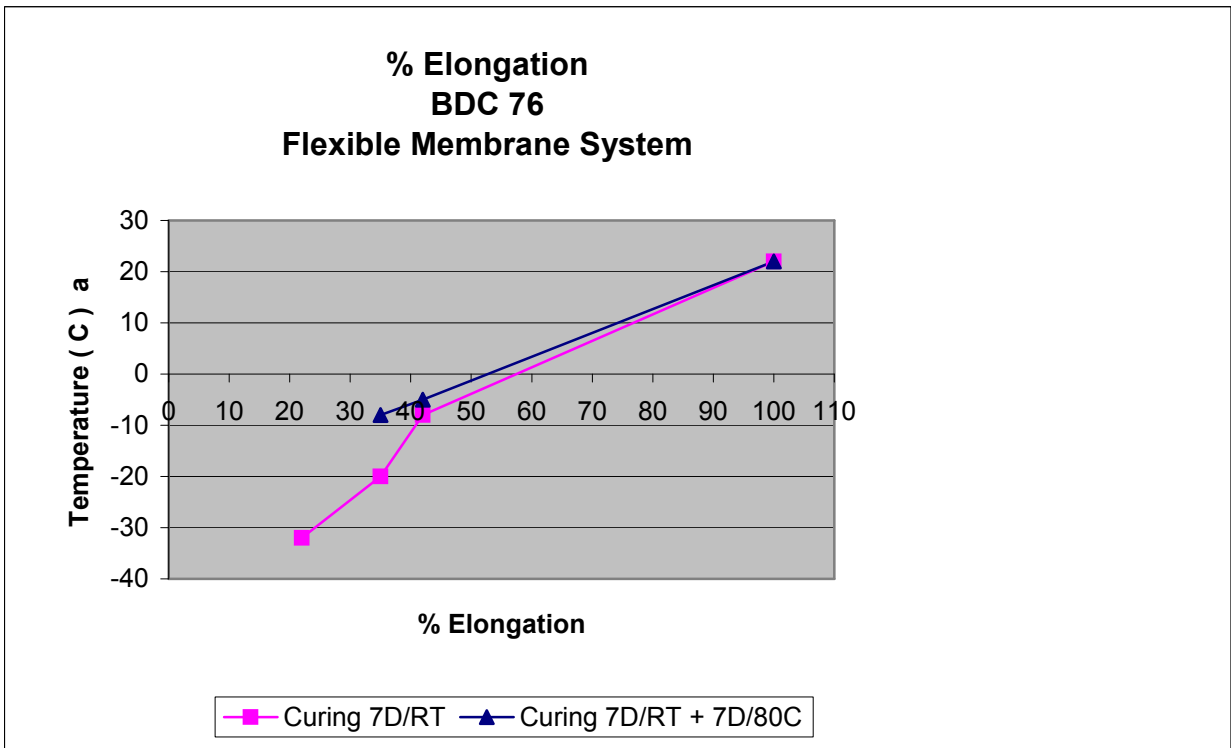
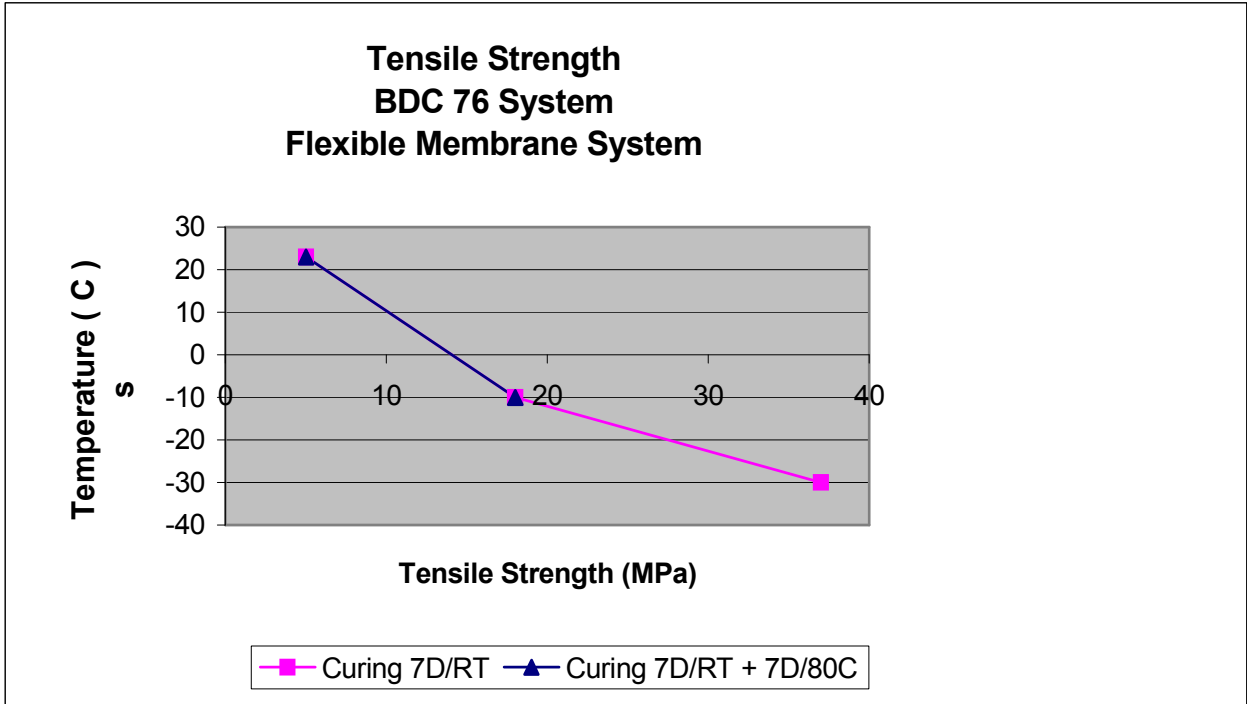
<b>General</b>	BDC 76 is formulated polyetherpolyamine hardener suitable for the formulation of crack bridging systems and flexible membranes used in civil engineering applications. Unlike externally plasticized systems, the flexibility of these systems is an inherent property and will be retained for the life of the coating. BDC 76 can be formulated with modified or unmodified bisphenol A and bisphenol F based liquid epoxy resins.	
<b>Chemical Description</b>	BDC 76 is a formulated polyetherpolyamine.	
<b>Applications</b>	Non-porous, crack bridging systems Flexible membranes for civil engineering applications To increase the elongation, flexibility and impact resistance of brittle systems Flexible adhesive systems	
<b>Advantages</b>	Moderate viscosity Solvent-free Excellent flexibility down to -30°C (-22°F)	
<b>Typical Properties</b>	Visual Appearance	Clean, no contamination
	Color, Gardner, max	6
	H* Active Equivalent, g/eq.	250
	Amine Value, mg KOH/g	160-190
	Viscosity @ 25°C (77°F), mPa s (cPs)	1,100 – 1,900
	Density @ 25°C (77°F) g/cm <sup>3</sup> (lb/gal.)	0.97 (8.1)
	Flash Point, Closed Cup, °C (°F)	>112 (>234)

## BDC 76 Pigmented System

(Parts per weight)	
BDC 76 Resin <sup>(1)</sup>	100
BDC 76	133
Mix Viscosity <sup>(2)</sup> @23°C, cPs	3,000
Gel time <sup>(3)</sup> 100 g, 23°C, min	65
Curing Properties <sup>(4)</sup>	
(@ 23°C / 50% Relative Humidity)	
Tack-free time, (hours)	4.5
Cure-through time, (hours)	>24
Film appearance <sup>(5)</sup>	Semi-gloss
(@ 5°C / 80% Relative Humidity)	
Tack-free time, (hours)	10
Cure-through time (hours)	>24
Film Appearance <sup>(5)</sup>	Matte
Coating properties after 7 day cure at 23°C	
Dry film thickness, 10-11 mil	
Pencil hardness <sup>(6)</sup>	2B
Cross hatch adhesion <sup>(7)</sup>	5
Impact (direct/reverse), <sup>(8)</sup> in.-lbs	>160/>160

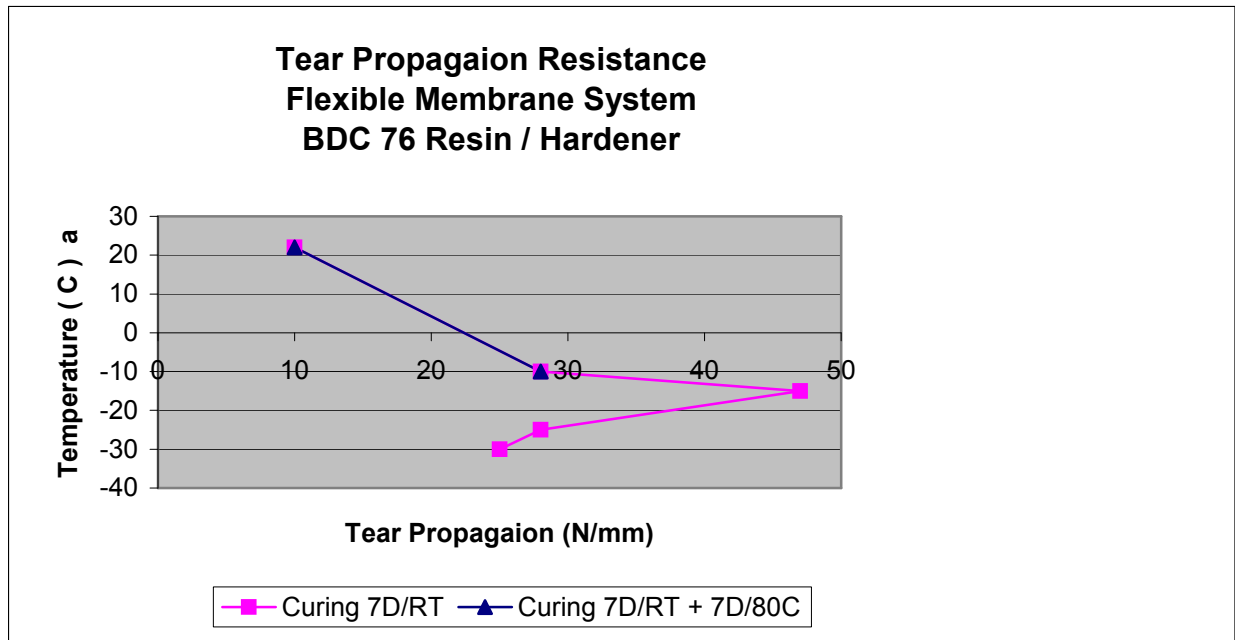
- (1) Standard bis A liquid epoxy resin (epoxy equivalent weight: 182 – 192)
- (2) ASTM D 4440 (ICI Cone & Plate)
- (3) Tested by TECAM® gelatin timer
- (4) Tested by Gardner® Circular Drying Time Recorder on a 10 mil wet coating
- (5) Visual
- (6) ASTM D 3363
- (7) ASTM D 3359 (0 = worst, 5 = best)
- (8) ASTM D 2794

**Mechanical Properties** Mechanical properties (tensile strength, elongation, tear propagation) of a flexible membrane (4 mm thickness) formulated with BDC 76 System



---

## Mechanical Properties



---

### Packaging & Storage

BDC 76 is supplied in 1-gallon kits, 10-gallon kits, or by the drum. This material should be stored at room temperature in the original sealed container.

---

### Handling/Safety Precautions

**Danger! Corrosive. Will cause severe eye and skin irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Can cause sensitization and dermatitis.**

Do not get in eyes, on skin or clothing.  
Do not inhale mist or vapors.  
Keep container tightly closed when not in use and during transport.  
Wash after handling.

**Read Material Safety Data Sheet Before Using.  
For Industrial Use Only.**

---

### First Aid

**In case of contact:**

**Eyes:** Immediately flush with water for at least 15 minutes. Get immediate medical attention.

**Skin:** Promptly wash thoroughly with mild soap and water.

**Inhalation:** Remove to fresh air. Give oxygen if breathing is difficult.

**Ingestion:** If conscious, give plenty of water. Get immediate medical attention.

---

**Important**

The following shall supersede any provision in Buyer's forms, letters and papers. There is no warranty or condition, whether express or implied by any statute or otherwise, including warranties and conditions of merchantability or of fitness for a particular purpose, for the product or products referred to herein. Technical advice furnished by the Seller shall not constitute a warranty or condition, statutory or otherwise, which is expressly disclaimed, all such advice being given and accepted at Buyer's risk. While the information contained herein is believed to be accurate, Seller makes no representations as to the reliability of the results or as to the results of Buyer or as inducements to infringe any relevant patent, now or hereafter in existence. Testing for intended use is the sole responsibility of Buyer. The product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or for uses for which implantation within the human body is intended. Under no circumstances shall Seller be liable for incidental, consequential or other damages from alleged negligence, breach of warranty or condition, strict liability or any other legal theory, arising out of manufacture, sale, use or handling of the product or products referred to herein. The sole remedy of Buyer and the sole liability of Seller for any claims shall be limited to Buyer's purchase price of the product that is the subject of the claim or the amount actually paid for such product. Whichever is less.

**BDC Epoxy Systems**  
**12903 Sunshine Ave**  
**Santa Fe Springs, Ca 90670**  
**(562) 944-6177**  
**Fax: (562) 946-8572**