

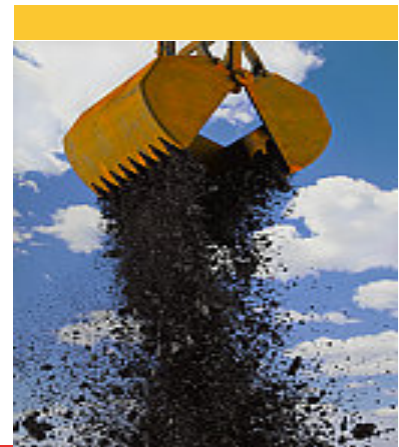
# PolyArmor® ABR-330

ABRASION RESISTANT HEAVY DUTY / SEVERE SERVICE  
EXTREMELY LOW FRICTION

## Product Data

Polyarmor® ABR-330 is a highly modified polyurea copolymer. It has excellent physical properties, 100% solids, superb abrasion resistance, high-slip, good chemical resistance, tough, two part spray coating giving rapid and consistent cure in applications ranging from – 20 °F to over 300 °F. “ABR-330” is specifically designed to be used in demanding abrasive installations requiring a flexible coating with good elongation and moderate chemical resistance. Consult Visuron for guidance. Applications can normally be reopened to traffic and service in minutes. More demanding use should be allowed to cure for at least eight hours.

- ◆ High abrasion resistance
- ◆ Low coefficient of friction
- ◆ Good chemical resistance
- ◆ 100% solids, no VOC's
- ◆ 330 % elongation
- ◆ Excellent thermal stability
- ◆ Shock resistant
- ◆ Low perm rate
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- ◆ Cures –20oF to 300oF
- ◆ Return to service in 60 min.
- ◆ Very high strength
- ◆ Bridges gaps up to
- ◆ 1/16 inch wide
- ◆ Waterproofs if desired



## Typical Uses

All applications where extremely abrasive conditions are present

- ◆ Coal Fired Power Plants
  - Coal chute lining
  - All areas where abrasion is a problem
- ◆ Mining—All types
- ◆ Coal preparation plants
- ◆ Aggregate processing
- ◆ Pulp & paper—timber & slurry
- ◆ Steel mills
- ◆ Aluminum smelters
- ◆ Copper smelters
- ◆ Scrap handling equipment

*“ABR-330” is well suited as an abrasion lining material. It is suitable over metal and concrete. It is very fast cure and permits extremely short down times with virtually no VOC's and extremely low odor.*

## Typical Application Properties

POLYARMOR® ABR-330 is a plural-component, fast cure, highly modified polyurea copolymer spray. Equal volumes of parts “A” and “B” are proportioned and dispensed through high pressure, high temperature spray equipment. Consult Visuron for correct machine conditions.

Bond Strength (ASTM D-4541)

- ◆ Gel time: 7 sec.
- ◆ Tack-free time: 45 sec.
- ◆ Open to traffic: 60 min.
- ◆ Open to more demanding exposure: 8 hr.
- ◆ Steel: exceed 1400 psi (expanded metal)
- ◆ Concrete: 400-600 psi (primed substrate (normally concrete failure))

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**COLOR AVAILABILITY: black, light gray, dark gray and beige**  
*"Custom colors available at additional charge"*



## Typical Physical Properties

Typical Physical Properties	Test Method	Value
Tensile Strength (psi)	D-638	5300
Elongation (%)	D-638	330
Tear Strength (pli)	D-624	525
Shore Hardness ("A" scale)	D-2240	50
Moisture Vapor Transmission	E-96	(perm. In.) 0.015
Abrasion Resistance ( wt. Loss-mg.) H-18, 1000g, 1000 rev.	D-6040	14
Flash Point, components ( °F)		>200
Coefficient of Thermal Expansion (in/in/°C)		approx. $4 \times 10^{-5}$
Gel Time / Tack Free		7 sec. / 45 sec.
Flame Spread	E-108	Class A (Comparable to UL 790)
Flexibility Test Gardner impact, in.-lbs. (on 1/32" steel panels) Direct and Indirect	D-2794	Pass

## Installation/Surface Preparation

**Steel** — Coating to **.060 inch thick max.** Do not apply in wet conditions. Any dissolved salts must be removed to current NACE specifications. Steel must be cleaned and blasted to SSPC-SP-10 or NACE 2 "Near White Metal" with a 4 mil anchor profile . All welds must be ground smooth. Immersion service requires a primer. Consult Visuron Technologies.

**Steel** — Coating **greater than .060 inch thick max.** Any weak or damaged existing coatings must be removed. Expanded, flattened metal must be wire welded in

Abrasive installations commonly require substantial coating thickness. Can be in excess of 1/2 inch thick. Consult Visuron Technologies Technical Service for advice.

**Concrete** — Do not apply in wet conditions. Concrete must be structurally sound, free of large voids, honeycombs, bug holes and delaminations. Concrete must have at least a 3000 psi minimum compressive strength. An effective vapor barrier must be present for below grade and slab-on-grade projects. Do not apply over un-vented steel pan decks or sandwich slab membranes. Maintain all expansion joints. Abrasive blast or etch to remove surface laitance. Emulsifying soaked in contaminants may be required. High degree of cleanliness is necessary. Surface must be dry and sound. Primer must be used. Consult Visuron Technologies.

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## Shelf Life & Storage

Six months in sealed unopened containers. Keep away from extreme heat, freezing and moisture. Never store in direct sunlight.

Clean up with Visuron CS-100 cleaning solvent, MEK, xylene or PGME. Dispose of in accordance with local and federal disposal regulations. See MSDS.

Read and understand the MSDS included with all shipments. Always use products with adequate ventilation and use required PPE. For confined space, use fresh air supply. For open air, use minimum of half-face, twin cartridge respirators approved for MDI. Always adhere to Society of Plastics Industry Safety Standards.

