

# Denpox™ BR

## Basic Epoxy Resin

### DESCRIPTION

**Denpox™ BR** is a solvent free, high viscosity two component epoxy resin.

### FEATURES AND BENEFITS

- High viscosity
- Easy to apply
- Excellent levelling
- High gloss finish
- Excellent bond to substrate

### FIELDS OF APPLICATION

**Denpox™ BR** is typically used as a mortar material. **Denpox™ BR** can also be used for potting applications.

### SUBSTRATE PREPARATION

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion. Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish. The tensile strength of the substrate should exceed 1.5 MPa. The residual moisture content should be less than 4%.

The substrate should be primed with a primer such as **Denpox™ TBR** prior to application.

**Denpox™ BR** should be applied when substrate temperatures are constant or falling to minimise the risk bubble and void formation due to expansion of air within the substrate when temperatures are rising. This is

particularly important to note on external applications. The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times. The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

### APPLICATION

**Denpox™ BR** (part A) is supplied in prepacked units along with **Denpox™ Hardener** (part B). Before mixing, **Denpox™ BR** should be homogenized by gentle stirring. precondition both A and B components to a temperature of approximately 15 to 20°C. Pour the entire contents of part B into the container of part A. Mix with a low speed (ca. 300 rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air. Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute. **Denpox™ BR** is applied by squeegee and finished by spike roller.

Consumption

**Denpox™ BR**: Typically 1.5 – 4.5 kg/m<sup>2</sup> depending on build thickness.

### CLEANING AGENT

Tools must be cleaned immediately after use with **Dencoat™ Tool Cleaner** or other suitable solvent.

### PACKAGING

**Denpox™ BR** is supplied in 22.5 kg buckets. **Denpox™ BR** is used with **Denpox™ Hardener** in appropriate quantity.

### SHELF LIFE

Minimum 12 months stored in original containers under dry conditions at a temperature between 15-20°C. Do not expose to direct sunlight.

**Technical data for Liquid material**

Property	Method	Values
Mixing Ratio A:B		22.5 kg : 3.25 kg
Mixed density		1.7 kg/l
Mixed Viscosity at 23°C	Brookfield DV-II	300 cP
Working time at 23°C		30 minutes
Ready for traffic at 23°C		12 hours
Fully cured 23°C		7 days
Substrate temperature		Min 5°C max 30°C
Max relative humidity		Max 85%

**Technical data cured material**

Property	Method	Values
Thickness		1 - 3 mm
SHORE D hardness	DIN 53505	80
Tensile strength	DIN 53504	n.a.
Elongation at Break	DIN 53504	>50%
Crack bridging ability		1 mm
Temperature resistance		Max 90°C
Water penetration		Impervious
Chemical Resistance		See separate datasheet
Adhesion to concrete	BS/EN 24614	>1.5 MPa
Abrasion resistance (Taber)	EN 1504-2	<100 mg
Impact resistance	EN 1504-2	Class II
Fire classification	EN 1504-2	D <sub>fl</sub>

**DenCoat™** E-mail: [info@dencoat.com](mailto:info@dencoat.com) · Website: [www.dencoat.com](http://www.dencoat.com)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to the technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out by only qualified experts in the sole responsibility of a customer. Please contact DenCoat for the latest version. All our documents, offers, ect. are in association with our general sales, delivery and application conditions.