

# EPOXAL<sup>®</sup> 100 PATCH

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## Series 10000

### PRODUCT DESCRIPTION:

**EPOXAL 100 PATCH** is a solvent-free, two-component, thermosetting, 100% solids epoxy patching compound. Designed to repair voids in concrete and wood prior to applying an “Epoxyal” coating system. **EPOXAL 100 PATCH** compound is used with NPC’s (RWS) wall system to paste the seams in the fiberglass cloth layer. **EPOXAL 100 PATCH** is a simplistic, fast curing epoxy filler and leveler.

### PRODUCT FEATURES:

- 100% solids formulation means this is a low odour product formulated without solvents.
- **EPOXAL 100 PATCH** is easily applied with a trowel or putty knife.
- May be applied to previously coated surfaces, which are properly prepared.
- Hard and abrasion resistant seamless coating, will stand up to industrial vehicular traffic and can still be easily cleaned and maintained.
- Available in colours.

### TYPICAL USES:

- Used as a component of NPC flooring systems.
- Used over concrete and wood to fill voids, screw heads, cracks and saw cuts on both floors and walls.
- Used to feather ridges providing a smoother surface or transition.

### TECHNICAL DATA

<b>POT LIFE:</b>	20 minutes @ 25°C(77°F) (decreases at higher temperatures)
<b>PACKAGING:</b>	3 Litre Units.
<b>SHELF LIFE:</b> container	1 year in unopened @ minimum 20°C(68°F).
<b>COLOUR:</b>	Grey, Beige and White.
<b>SHEEN:</b>	Gloss
<b>MIXING RATIO:</b>	2:1 Resin to Catalyst (by volume)
<b>VOLUME SOLIDS:</b>	100%
<b>THEORETICAL COVERAGE:</b>	13 sq.ft./US Gal @ 120mils DFT
<b>RECOMMENDED DFT:</b>	10 to 120 mils
<b>CURE TIME</b> @25°C(77°F):	Recoat-12-14hrs Light Traffic-20hrs Full Cure-7days
<b>MIXED VISCOSITY</b> @ 23°C(73°F):	19,600 - ±200 CPS (ASTM D445-83)
<b>CLEANUP:</b>	NPC Epoxyal Thinners

### PERFORMANCE DATA

Typical Performance After 7 Days Cure @25°C(77°F)	
<b>COMPRESSIVE STRENGTH</b>	9200PSI(ASTM 695-85)
<b>TENSILE STRENGTH</b>	8000PSI(ASTM 695-85)
<b>TENSILE MODULUS</b>	400 KSI(ASTM D638-86)
<b>TENSILE ELONGATION</b>	3.8 % (ASTM D638-86)
<b>FLEXURAL STRENGTH</b>	11000PSI(ASTM D790-86)
<b>FLEXURAL MODULUS</b>	190(ASTM D790-86)
<b>HARDNESS</b>	84(SHORE D)

NOTE: The above described data is solely based on lab testing done under strictly controlled conditions. Ambient

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temperature was used for all testing. No warranty can be given as to the accuracy of this information as it will depend upon conditions at actual project location, which are beyond our control.

### **SURFACE PREPARATION:**

#### **New Concrete Preparation:**

All surfaces to be coated must be clean, dry and free of all contaminants. New concrete must be cured a minimum of 28 days with no more than 3% moisture content. Any curing or hardening compounds, form oils, release agents or laitance must be removed by means of mechanical abrasion. Shot blasting or diamond grinding are the recommended methods. These two means of mechanical abrasion will clean the surface and open the pores of the concrete to allow maximum penetration of the primer. Ensure the methods of mechanical abrasion are dust-free.

#### **Existing Concrete Preparation:**

Ensure all loose concrete is removed, using a scarifier, diamond grinder, bush hammer or other methods. Remove any contamination, including grease and oil using an industrial cleaner. (Consult your NPC representative for recommended cleaners) Prepare the entire floor by method of a shot blaster, or diamond grinder. Patch any uneven or damaged concrete using “NPC Epoxal 100 Patch” or consult your NPC representative for further instructions.

Existing coated surfaces must be intact and tightly bonded to substrate below. If stability of existing coating is in question, test a small section and check for lifting. Hard or glossy surfaces must be abraded to improve adhesion performance. *NPC will not warrant the application of Epoxal coatings over an existing paint or urethane.*

#### **Wood Preparation:**

All wood surfaces to be coated must be clean, dry and free of all contaminants. The wood surface must be very rigid, with no possible movement.

#### **PRIMING:**

**EPOXAL 100 PATCH** is self-priming.

#### **MIXING:**

***EPOXAL 100 PATCH is always mixed at a ratio of 2 Parts A to 1 Part B by volume.***

Always premix the Part A (resin) component of the mixture thoroughly. **EPOXAL 100 PATCH** is supplied in 3 litre units. Mix in the original container by adding the Part B into the Part A. ***Always mix the two components for a full 2 minutes with a jiffy mixer.***

#### **APPLICATION:**

- Step 1. Mix the material according to instructions provided.
- Step 2. Pour the mixed material on the prepared area to be patched.
- Step 3. Spread over the desired area using a rubber squeegee or flexible trowel.

#### **CURING:**

***At a temperature of 25°C(77°F), EPOXAL 100 PATCH will be tack free within 12-14 hours. It will support light traffic at 20 hours and will reach full cure and chemical resistance in 7 days.***