

# ENDURABOND 450 NS

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## DESCRIPTION

**ENDURABOND 450 NS** is a rapid cure, chemical resistant, medium film build, solid colour textured finish epoxy floor coating system having negligible odour. As an alternative to a solid colour finish, a decorative quartz or paint chip with clear glaze finish may be applied. **ENDURABOND 450 NS** is based on the latest state of the art epoxy technology.

## USES

Ideal for use for general factory floors, canteens, ablution blocks, dairy factories, milking sheds, hydro and machinery room floors, water and sewage treatment plants etc. The **ENDURABOND 450 NS** coating will dull and may chalk on long-term exposure to sunlight and therefore is not recommended for exterior use if a semi-gloss finish is to be maintained. Also suitable for aircraft hangar floors using **ARMAFLOOR 500** Final Coat Polyaspartic Clear Glaze Coat.

When **ENDURABOND 450 NS** is used with a decorative quartz or paint chip finish, suitable applications include canteens, restaurant, garage and laboratory floors, entrance and lobby areas.

## ADVANTAGES

- Rapid cure.
- Negligible odour.
- Semi-Gloss
- Very good wet edge properties.
- Exceptional rolling/application properties.
- Can be applied without disturbing factory personnel.
- Can be applied at any thickness (unthinned).
- Cures down to 5°C.
- Two coats only required.
- Easy to clean and hygienic.
- Cures to an even, textured, non-slip, semi-gloss finish.
- Can incorporate a decorative quartz or paint chip finish.

## MIX RATIO

**2 parts ENDURABOND 450 NS Part A + 1 part ENDURABOND 450 NS Part B by volume.**

## SOLID COLOUR FINISH

## APPLICATION

Add appropriate measured amounts of **ENDURABOND 450 NS** Part A and Part B into a suitable mixing vessel and mix thoroughly with a low speed power drill and a "Jiffy" type mixer for minimum of 3 minutes. Mix thoroughly making sure to scrape the sides and base of the container well.

### Primer Coat:

Add 10-15% **Endurabond Thinner No:2** by volume to mixed **ENDURABOND 450 NS** Parts A and B and mix for a further 2 minutes. Apply by roller using a **10 mm nap sleeve** (a larger nap will apply the coating at a higher film build which will reduce the non-slip texture. A smaller nap will not cover floor imperfections adequately).

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**Top Coat:**

Add 10% **Endurabond Thinner No:2** by volume to mixed **ENDURABOND 450 NS** Parts A and B and mix for a further 2 minutes. Apply by roller using a **10 mm nap sleeve** (a larger nap will apply the coating at a higher film build which will reduce the non-slip texture. A smaller nap will not cover floor imperfections adequately).

Can be used un-thinned where total non-flammability is required.

When used as a self-levelling topping (generally 2-3 mm thickness) **do not thin.**

If a non-slip finish is required, apply an additional Top Coat as above. Apply by roller using a **10 mm nap sleeve** (a larger nap will apply the coating at a higher film build which will reduce the non-slip texture. A smaller nap will not cover floor imperfections adequately).

Maximum adhesion between coats is achieved by applying the topcoat while the primer is just tack free, or, if still tacky wear spiked shoes if rapid installation is required.

**MAXIMUM RECOAT TIME**

18 hours at 25°C.

**WORKING TIME**

20 minutes at 25°C      45 minutes at 10°C

**TACK-FREE TIME**

2-3 hours at 25°C

**CURE TIME:** To handle and accept traffic

5°C                      48 hours

15°C                    24 hours

20°C                    Overnight

25°C                    Overnight

**COVERAGE FOR 250 MICRONS DFT COATING**

Primer:    6 – 8 m<sup>2</sup> per litre (dependant on substrate porosity)

Top Coat: 8 – 9 m<sup>2</sup> per Litre

**GLOSS LEVEL**

Semi-gloss

**COLOURS**

Standard Grey, Koala Grey, Beige.

Special colours available on request.

Tools can be cleaned with MEK or MIBK before the material has gelled.

For **ARMAFLOOR 500** Final Coat Glaze Coat: consult Polymer Group Ltd.

**DECORATIVE QUARTZ OR PAINT CHIP FINISH****Primer Coat:**

Add 10-15% **Endurabond Thinner No:2** by volume to mixed **ENDURABOND 450 NS** Parts A and B and mix for a further 2 minutes. Apply by roller using a **10 mm nap**

**sleeve** (a larger nap will apply the coating at a higher film build which will reduce the non-slip texture. A smaller nap will not cover floor imperfections adequately).

#### **Base Coat for Quartz or Paint Chip:**

After ½ to 2 hours apply base coat - add 10% **Endurabond Thinner No:2** by volume to mixed **ENDURABOND 450 NS** Parts A and B and mix for a further 2 minutes. Apply by roller using a **10 mm nap sleeve** (a larger nap will apply the coating at a higher film build which will reduce the non-slip texture. A smaller nap will not cover floor imperfections adequately). Can be used un-thinned where total non-flammability is required. Broadcast ArmaFloor Quartz or Paint Chip into the wet **ENDURABOND 450 NS**. Use spiked shoes to get on the floor if the primer coat won't take foot traffic, ie when applying wet on wet.

When the floor is hard enough, sweep up the excess aggregate, run a pole sander over the floor to remove any sharp nibs and then vacuum the floor.

#### **Top Coat:**

Mix up ArmaFloor 500 Final Coat and add 10-15% Armafloor thinner and mix thoroughly. Apply by squeegee and roller using a 10 mm nap sleeve, working the roller vigorously in several directions to produce a top coat with an even thickness, uniform gloss finish coat. Refer to data sheet for cure times.

#### **COVERAGE FOR 1000 MICRONS DFT COATING**

Primer: 6 – 8 m<sup>2</sup> per litre (dependant on substrate porosity)

Base Coat: 5 - 6 m<sup>2</sup> per Litre

Top Coat: 4 - 5 m<sup>2</sup> per Litre

#### **GLOSS LEVEL**

Semi to high gloss

#### **COLOURS**

Quartz: Pepper Frost, Toffee, Almond, Amaretto and Caribbean.

Paint Chip: Charcoal Grey, Granite, Sandstone, Sunset.

#### **SAFETY PRECAUTIONS**

##### **Health Considerations:**

Contamination of the eyes by resin, hardener or mix should be treated immediately by flushing with clean, running water for 10 to 15 minutes. A doctor should then be consulted.

Material smeared or splashed on the skin should be dabbed off, and the contaminated area then washed and treated with a cleansing cream.

A doctor should be consulted in the event of severe irritation or burns. Contaminated clothing should be changed immediately.

Anyone taken ill after inhaling vapours should be moved out of doors immediately.

Consult the Material Safety Data Sheet.

##### **For your Protection:**

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact Polymer Group Ltd to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Polymer Group Ltd quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data if shown, are subject to change without prior notice. **NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY THE SELLER, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**