

High build solvent free epoxy coating.

DEFINITION

Novo Coat PW 400 is a solvent free wall coating and flooring epoxy system. It is two components used for producing high quality epoxy smooth coating with high glossy surface; where it is based on epoxy resin and agents which are specially selected for their ability to withstand chemical attack.

ADVANTAGES

1. Easy and fast to apply.
2. Self – smoothing surface.
3. Durable, low maintenance costs.
4. Solvent free – no odor during application.
5. Good adhesion.
6. Good resistance for abrasion, chemicals and petroleum products.
7. Anti-microbial growth.
8. Nontoxic so can be used for protective tanks and pipes of drinking water.
9. Can be used for producing anti-slip flooring.
10. Available in wide range of colors.

FIELD OF USES

Novo Coat PW 400 is used for producing high quality epoxy flooring and wall coating area for:

- Chemical industries.
- Food Processing.
- Dairy product processing.
- Beverage Manufacturing.
- Swimming Pools.
- Commercial Kitchens.
- Hospitals and Institutions.
- Chemical processing facilities.
- Pharmaceutical Manufacturing.

PROPERTIES @ 25 C°

Color	White, grey, and many colors
Gloss	Glossy
Solid content by (WT)	100 %
Mixing Ratio	4 A: 1 B
Specific gravity (mix)	1.62 ± 0.03 g/cm ³
Pot life	35 min.
Temp. of Application	(15 – 35) C°
Full curing time	7 days
Rate of use	3 -5 m ² / kg (Depending on surface conditions)

DIRECTIONS OF USE

✓ Concrete surface preparation

- The substrate must be clean, sound and free from all contaminants that may have an effect on the adhesion strength like dust, oils and grease, wax, cement laitance, and any other contaminants must be removed by blasting or suitable release agent.

- New concrete should be at least 28 days old.

Acid etching concrete surface (if necessary)

- The concrete surface should be sprayed by diluted muriatic acid (Hydrochloric acid), phosphoric acid or other suitable chemicals to the removal of efflorescence or mineral deposit and to adjustment PH concrete surface, then the surface must be washed well by clean water and left to well dry before application.
- Avoid preparing the surface by acid etching method when reinforced concrete surface containing cracks.
- The surface moisture should be less than 4 %.
- Holes or cracks should be filled with **Novo putty EP**.
- Any excessed laitance or dust should be removed before applying novo prime.

✓ Priming the concrete surface

- Concrete surface should be primed with **Novo Prime 150 L.V** which should be mixed in the proportions supplied.
- Add the entire contents of the part B can to the Part A can. When thoroughly mixed preferably using a slow speed drill and paddle, the primer staff brushes. Work the primer well into the surface of the concrete taking care to avoid puddling or over application.
- The primer should be left to achieve a tack-free condition before applying the topcoat.
- A second coat of primer may be required if the substrate is excessively porous.

✓ Mixing the top coat

In a separate mixing vessel, use a slow speed drill and mixing paddle to mix part A and part B for 3 minutes.

- Mixing these components in the quantities supplied taking or regarding the mix ratio in technical data sheet of the product.
- Be sure that all containers are scraped clean.

NOVOCHEM S.AE

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- **Application of top coat**

- The first coat of **Novo Coat PW 400** should be applied using a medium haired pile roller or squeegee to achieve a continuous coating.
- Ensure that loose hairs in the roller are removed before use. A minimum film thickness of 200 microns should be applied. They can be increased where specifications demand.

MECHANICAL & CHEMICAL TEST@25C°

TEST	RESULT	STANDARD
Abrasion resistance	21 Mg	ASTM D 1060
Hardness test	12 N	ASTM D 3363
Pull off test	5 Mpa	ASTM D 3359
Water proofing	0.1 %	E.S 3303 / 2007
H2SO4 Conc .10 %	Pass	E.S 3303/ 2007
NaOH Conc. 20 %	Pass	E.S 3303 / 2007
Acetic acid 2 %	Pass	E.S 3303 / 2007
Tensile strength	45 N /Mm 2	ASTM D 2370
Flexural strength	75 N / Mm 2	ASTM C 580

STORAGE

One year under suitable storage conditions

PACKING

- Group (A +B) = 5 kg

HEALTH AND SAFETY

- Wear protective clothes, gloves, glasses and face protection.
- Good ventilations incase application by spraying.
- For skin contact, remove it with suitable cream followed by soap and water cleaning.
- For eye contact, rinse with plenty clean water then seek to medical advice.

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