NOVOCHEM S.A.E
construction chemicals

Novo Floor SB 140

Data Sheet

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High Build Solvent Base Epoxy for Flooring and Protective Coating.

DEFINITION

Novo Floor SB 140 is a solvent base epoxy coating for different types of systems concrete floors, walls and top coat for steel protective coatings. **Novo Floor SB 140** is used for producing high quality epoxy smooth flooring, coating with high glossy surface, where it is based on epoxy resin solvent base and curing agents that 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. Good adhesion.
5. High resistance for abrasion, chemicals and for petroleum products.
6. Anti-microbial growth.
7. Available in wide range of colors.

FIELDS OF USE

Novo Floor SB 140 is used for producing a high quality epoxy flooring & coating area for:

1. Flooring system.
2. Coating steel, concrete and aluminum as internal protective coating.
3. Due to its high chemical resistance and smooth.
4. Finish; it is recommended in wet industrial areas.

PROPERTIES @ 25 C°

Color	White , grey , all required colors
Gloss	Glossy
Solid content by (WT)	72 ± 3 %
Solid content by (Vol.)	55 ± 3 %
Mixing Ratio	3 A : 1 B
Specific gravity (mix)	1. 32 ± 0.03 g/cm^3
Pot life	3 hrs.
Temp. of Application	(15 – 35) C°
Full curing time	7 days
Rate of use	3 -5 m^2 / kg - 100 µ-dft. (depending on surface conditions)

DIRECTIONS OF USE

✓ **surface preparation :**

- The substrate must be clean, sound and free from all contaminants that may affect 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 adjust PH concrete surface, then the surface must be washed well with 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 should be filled with epoxy putty.
- Any excessed laitance or dust should be removed before applying novo prime.

✓ **Priming the steel surface :**

- Should be blasting for cleaning to SIS-Sa 2½.
- Remove all oil, grease, dirt, etc.
- Steel surface should be primed after blasting with a good anti-corrosion primer like **Novo prime ZP 100** or with **Novo prime ZR 200.**
- Add the entire contents of Part **B** can to Part **A** can. When completely mixed, it is preferred using a slow speed drill and paddle, the primer staff brushes. Spread the primer well on the surface of the concrete taking care to avoid pudding or over application.
- The primer should be left to achieve a tack-free condition before applying the topcoat.

✓ **Priming the concrete surface :**

- Concrete surface should be primed with **Novo Prime 150 L.V** that should be mixed in the proportions supplied.

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✓ **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 regarding the mix ratio in technical data sheet of the product.
- Be sure that all containers are scraped clean.
- **Novo Floor SB 140** may be diluted by **Novo Sol X2 or Novo Sol 13** (if required).

✓ **Application of top coat**

- The first coat of **Novo Floor SB 140** should be applied using a medium haired pile roller or spray to achieve a continuous coating.
- Ensure that loose hairs in the roller are removed before use. A minimum film thickness of 150 microns should be applied.

- **Application method:**

(Recommended thinner **Novo Sol X2 or Novo Sol 13**) flash point 25Cº.

By brush & roller:

Volume of thinner 0 - 5%

Air spray:

Volume of thinner 0 – 10%

Airless spray application:

- Volume of thinner 0-15% according to dft required
- Nozzle orifice 0.49-0.54 mm. (0.020-0.022 Inch)
- Nozzle pressure 15 Mpa.

Guide application table

Item	Min	Max	Act.
Film thickness dry. (µ)	55	65	60
Film thickness wet. (µ)	100	120	100
Rate of use Theo.(m^2/L)	6	5	5.5
Recoat time (approx.)	4 – 4.5 hrs.		

MECHANICAL & CHEMICAL TEST@25 C°

TEST	RESULT	STANDARD
Abrasion resistance	25 Mg	ASTM D 1060
Hardness test	10 N	ASTM D 3363
Pull off test	4 Mpa	ASTM D 3359
Water proofing	0.67 %	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

STORAGE

One year under suitable storage conditions.
(10 – 27) Cº

PACKING

Group (A +B) = 4 kg & 25 kg

HEALTH AND SAFETY

- Wear protective clothes, gloves, glasses and face protection.
- Good ventilations in case of spraying application.
- No smoking.
- **Novo Floor SB 140** and **NOVO SOL** keep away from sources of ignition.
- In the event of fire, extinguish with CO2 or foam.
- Do not use water jet.
- 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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