

High Build Epoxy Chemical Resistance Coating.

DEFINITION

Novo Coat SF 150 CR is a Chemical resistance epoxy system; two components, used for producing a high-quality epoxy smooth coating with a semi glossy surface where it is based on epoxy resin and agents that are specially selected for their ability to withstand chemical attack.

ADVANTAGES

1. High Chemical Resistance
2. Easy and fast to apply.
3. Self – smoothing surface.
4. Durable, low maintenance costs.
5. Good adhesion.
6. Good resistance for abrasion, chemicals and petroleum and oils products.
7. Anti-microbial growth.
8. Can be used for producing anti-slip flooring.
9. Available in wide range of colors.

FIELDS OF USE

Novo Coat SF 150 CR is used for producing high quality epoxy coating area in:

1. Chemical industries.
2. Bottling plants.
3. Pharm. industries.
4. Cosmetic firms.
5. Underground car Parks.
6. Storage and logistic areas.
7. Anti-bacteria; as Hygienic, bacteria cannot growth on **Novo Coat SF 150 CR** surface...etc.

PROPERTIES @ 25 C°

Color	White, grey, all required colors
Gloss	Semi glossy
Solid content by (WT)	%
Mixing Ratio	810 A: 190B
Specific gravity (mix)	1.60 ± 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 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 **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 SF CR** that should be mixed in the proportions supplied.
- 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 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 regarding the mix ratio in technical data sheet of the product.

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NOVOCHEM S.AE

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- ✓ Application of top coat
- The first coat of **Novo Coat SF 150 CR** 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.
 - If a slip resistant texture is required, the base coat should now be dressed with the chosen **Novo Floor Anti-Slip** Grain. This should be done as soon as possible after laying. The recommended procedure is to completely blind the base coat i.e., Apply excess aggregate to completely obliterate the base coating. Alternatively, **Novo Floor Anti-slip** grains can be broadcast in a light random dressing to provide a less dense finish. When the base coat has reached initial cure, the excess aggregate should be vacuum cleaned from the surface. The topcoat can be applied by medium haired roller. Care should be taken to ensure that a continuous film is achieved and the rough surface, this topcoat must be applied within 36 hours @ 20°C (15 hours @ 35°C) of the application of the first coat.

Expansion Joint

Expansion joint; the existing substrate must be retained and continued through the **Novo Coat SF 150 CR** topping. **NOVOCHEM** have a range of joint sealants specifically designed.



MECHANICAL & CHEMICAL TEST@25 C°

TEST	RESULT	STANDARD
<i>Abrasion resistance</i>	21 Mg	ASTM D 1060
<i>Hardness test</i>	12 N	ASTM D 3363
<i>Pull off test</i>	5 Mpa	ASTM D 3359
<i>Water proofing</i>	0.1 %	E.S 3303 / 2007
<i>H2SO4 Conc .30 %</i>	Pass	E.S 3303/ 2007
<i>NaOH Conc. 20 %</i>	Pass	E.S 3303 / 2007
<i>Acetic acid 2 %</i>	Pass	E.S 3303 / 2007
<i>Tensile strength</i>	45 N /Mm 2	ASTM D 2370
<i>Flexural strength</i>	75 N / Mm 2	ASTM C 580

STORAGE

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

PACKING

Group (A +B) = 5 kg

HEALTH AND SAFETY

- Wear protective clothes, gloves, glasses and face protection.
- Good ventilations in case of spraying application.
- 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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