

Chemical resistance Self – Leveling Flooring for 2-4 mm Application.

DEFINITION

Novo Metallic is solvent free flooring system, contains three compounds, uses for producing a high-quality self-leveling flooring with different thickness 2-3-4 mm.

ADVANTAGES

1. Easy and fast to apply.
2. Economical.
3. Good adhesion.
4. Good resistance for abrasion, chemicals and petroleum products.
5. Impact resistance.
6. Anti-bacteria.
7. Available with different colors.

FIELDS OF USE

Novo Metallic is used for producing high quality self-leveling flooring for:

1. Foods and medicine factories.
2. Water and electric stations.
3. Storage and logistic areas.
4. Bottling plants, etc.

PROPERTIES @ 25 C°

Color	White, grey, and many colors
Gloss	Glossy
Mixing Ratio	0.382 A: 0.118B: 0.50 C
Specific gravity (mix)	1.65 ± 0.05 g/cm ³
Pot life	35 min.
Temp. of Application	(15 – 35) C°
Full curing time	7 days
Rate of use	3 – 4 kg /m ² / 2 mm (Depending on surface conditions)
Shelf life	12 months in suitable storage 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 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 %.
 - The compressive strength should not be less than 25 MPa.
 - Holes should be filled with **Novo Putty EP**.
 - Any excessed laitance or dust should be removed before applying novo prime.
 - Apply **Novo Prime SF** and allow curing.
 - Add comp B (ensure all liquid of comp B is added) to comp A and mix well then add comp C on the mixture step by step and stirring during addition of comp C. Stirring after finish adding of comp C by using slow mixer 300rpm / min till obtaining homogenous mortar.
 - **Novo Metallic** is poured on the primed surface and spread with a steel trowel to achieve a 2mm seamless topping.
 - Using a spiked roller, remove air entrained and allow curing
 - **Novo Metallic** should be applied by specialist contractors who must follow the procedures laid down in the product application guide.

NOVOCHEM S.AE

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MECHANICAL & CHEMICAL TEST@ 25 C°

TEST	RESULT	STANDARD
<i>Abrasion resistance</i>	40 Mg	ASTM D 1060
<i>Hardness test</i>	11 N	ASTM D 3363
<i>Pull off test</i>	3.6 Mpa	ASTM D 3359
<i>Water proofing</i>	0.05 %	E.S 3303 / 2007
<i>H2SO4 Conc .10 %</i>	Pass	E.S 3303
<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 /Mm2	ASTM D 2370
<i>Flexural strength</i>	70 N / Mm2	ASTM C 580

STORAGE

Store under suitable storage conditions in glossed packing not store in direct sun, temperature (10 -27) C°

PACKING

Group (A +B+C) = 30 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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