SEMPOXY PRIMER NB

TWO COMPONENT SOLVENT FREE MIOSTURE TOLERANCE EPOXY PRIMER

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DATE :05.10.2022
REV. DATE.: 01.01.2025 REV:02

1 DESCRIPTION

Two component, solvent free, moisture tolerance epoxy based primer.

2 ADVANTAGES

- Excellent adhesion.
- Perfect impregnation.
- High mechanical strenght.
- Excellent anti dust properties before epoxy coating applications.
- Excellent filling capacity for the cracks in the concrete.

3 USES

- Factories, warehouses, shopping malls, workshops,
- Aircraft hangars, schools, hospitals,
- Pharmaceutical industry, and food industry,
- Laboratories, parking lots, water treatment plants,
- Anti dust primer before epoxy coating.

4 TECHNICAL SPECIFICATIONS

QUALIFICATIONS	*FEATURES*	*METHODS*
Color	Şeffaf	-
Density	1,05±0,05 g/cm^3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C
Hardness	95 Shore D	ASTM D2240 / DIN 53505 / ISO R868
Mixture Ratio (A+B)	60:30 Ağırlıkça	-
Solid Content (A+B)	%100	-
Mixture Pot Life (+25°C)	25-35 dk	DIN 16945
Thinning	Not recommended	-
Application Tools	Roll, Brush	-

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5 CURING TIME

Temp.	Pedestrian Traffic	Mechanical Strength	Chemical Strenght
+10 °C	24 hours	5 days	10 days
+20 °C	12 hours	3 days	7 days
+30 °C	6 hours	2 days	5 days

6 RECOATING TIME

Temp.	Pedestrian Traffic	Mechnanical Strenght
+10 °C	24 hours	5 days
+20 °C	12 hours	3 days
+30 °C	6 hours	2 days

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7 CHEMICAL RESISTANCE TABLE

CHEMICAL NAME	RESULT
Sulfuric Acid (H2SO4) 10%	
Sulfuric Acid (H2SO4) 20%	3-2
Hydrochloric Acid (HCL) 10%	3-2
Hydrochloric Acid (HCL) 20%	3-2
Nitric Acid (HNO3) 10%	3-2
Nitric Acid (HNO3) 20%	3-2
Acetic Acid (CH3COOH) 10%	3-2
Acetic Acid (CH3COOH) 20%	2
Lactic Acid (CH3CHOH-COOH) 10%	2
Lactic Acid (CH3CHOH-COOH) 20%	2
Formic Acid (HCOOH) 10%	2
Formic Acid (HCOOH) 20%	2-1
Xylene	2
Ethyl Alcohol	2
Solvents	2

*3- Very Durable 2- Durable 1- Non-durable – Tendency

8 MECHANICAL STRENGHT

Compressive Strength (N/mm2) (DIN EN 196)	~95
Adhesion Strength (N/mm2) (EN 1542, EN ISO 4624, EN 12118)	>3 (Concrete Surface)
Flexural Strength (N/mm 2) (DiN EN 196)	~30
Shore D	80-85

9 APPLICATION PROCEDURE

Component A is mixed with a low speed (300-400 rpm) mechanical mixer until it becomes homogeneous. Component B is then added to component A and the mixture is mixed continuously for 2 minutes until it becomes homogeneous. Avoid over-mixing to minimize air entrainment. Its pot life is 35 min so it should be used as soon as possible .

SURFACE PREPARATION

For metal surfaces **:** In order to achieve top level performance, sandblasting should be done at Sa 2 ½ level. The sandblasted surface should be primed with a dust rich epoxy primer or phosphate rich epoxy primer to form the required dry film before recording product identification information.

For concrete surfaces **:** The concrete surface must be clean, solid and have sufficient compressive strength (>25N/mm2), and tensile strength must be >1.5N/mm2. The concrete floor to be insulated must be solid and

there must be no movement on the surface. The grout layer on the surface must be removed. The concrete to be insulated must be at least C25 and preferably C30 – C35 standard.

Concrete standards **:** The surface should be cleaned with pressurized water and freed from oil, grease, dirt, mortar particles and dust. Concrete surfaces should be prepared to obtain an open porous surface by removing cement grout using abrasive equipment.

It should also be completely cleaned from mold release agents, cement residues, shavings, loose particles and uncured membranes. The grout layer on the surface must be removed. (Shot-Blast, Rota Tiger etc.) If the surface is too shiny, it should be roughened with milling or sandblasting. Concrete cracks should be cut in a V shape, cleaned and false joints should be cleaned

Surface Temperature: Min + 10 °C / Max + 30 °C
Ambient Temperature: Min + 10 °C / Max + 30 °C
Material Temperature: Must be between + 10 °C and + 30 °C.

Surface Moisture Content: The moisture content in the concrete must be max. 4%.
Relative Humidity: Must be max. 80%
.
Dew Point: The ground temperature must be at least 3 oC above the dew point during application.

Application Procedures

Mixing Ratio : A/B =60/30 (by weight

Mixing :Component A is mixed with a low speed (300-400 rpm) mechanical mixer until it becomes homogeneous. Component B is then added to component A and the mixture is mixed continuously for 2 minutes until it becomes homogeneous. Avoid over-mixing to minimize air entrainment.

Application Conditions : Please check the relative humidity and dew point before application. If the conditions are suitable, start the application The prepared mixture should be consumed within a maximum of 35 minutes. Repair and leveling operations are carried out at least 8 hours after the previously applied epoxy primer

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12 PACKAGING

A+B: 12+6 =18 kg set in metal buckets

15 CONSUMPTION

Min. Consumption: 0,3 – 0,5 kg/m2

13 STORAGE AND SHELF LIFE

Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 oC. Once a pail has been opened, use as soon as possible

14 PRECUATIONS

Flammable and exploision products should be kept away during the application. Protective gloves and masks should be used for hands anzd eyes during application. The product should be used in well ventilated environments.If the material comes into contact with eyes, it should be washed immediately with sucient water. Childrens should kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

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