

Eponal 321

Epoxy Primer

Product Description :

A solvent-free, chemically and mechanically resistant, two-component epoxy primer. It is enriched with environmentally friendly additives, and increases the adhesion quality by reducing the consumption.

Areas of application :

- Interiors
- All mineral-based floors e.g. concrete, tile, ceramics, stone, etc.

Features :

- High-resistant
- Resistant to chemicals

Technical data :

Characteristics	Resin (Comp.A)	Hardener (Comp. B)	Blended
Consistency	Liquid	Liquid	Liquid
Colour	Pale yellow	Yellow	Yellow
Specific gravity at 23°C	1,08 – 1,14	1,00 – 1,04	1,06 – 1,12
Brookfield viscosity at +23°C (*)	900 - 1600 mPa.s	300 - 700 mPa.s	500 - 1000 mPa.s
Mixing ratio: - by weight - by volume	100 2	50 1	
Working time at 20°C 5 kg			15 min
Application time at 20°C			45 min
*Hardness, Shore D			70

Technical data are approximately provided according to a temperature of + 20°C and a relative humidity of 50%.

CHEMICAL RESISTANCE AT 20°C

Ethyl Acetate	NR	Demineralised Water	R
Acetone	NR	Distilled water	R
Acetic acid 10%	R	Bleacher 48° CHL	R
Hydrochloric acid 10%	R	Hydrogen peroxide (till 70 vol)	R
Hydrochloric acid 30%	R	Ethanol 76%	R
Citric acid 10%	R	Domestic oil	R
Lactic acid 10%	R	Brake fluid	R
Nitric acid 10%	R	Methanol	RI
Nitric acid 30%	R	Potash 50%	R
Phosphoric acid 10%	R	Soda 50%	R
Phosphoric acid 30%	RI	Petrol, unleaded	R
Sulphuric acid 10%	R	Toluene	RI
Sulphuric acid 30%	R	Wines, beer, fruit juices	R
Ammonia 20%	I		

R : Resistant

RI : Resistant to intermittent exposure/rare deposits when cleaned immediately.

NR : Non-resistant

Preparing the substrate :

- The surfaces to be coated should be free of adhesive preventive foreign substances such as dust, dirt, mould oil, paint etc.; residues and wastes like cement, plaster and concrete should also be removed.

- The sub-surfaces that are not strong enough to bear their own weight e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- Relative humidity should be <4%; it should have adequate compression and tensile strength (respectively at least 25 MPa and 1,5 MPa after 28 days cure for new concrete) and should not be exposed to hydraulic pressure.
- Depending on surface condition and type, substrates are treated by abrasive blasting, mechanical planing, scabbing, sandblasting, high pressure water washing or chemical stripping. After mechanical treatment of a subfloor, thoroughly vacuum all dust.
- The floors which require repair should be filled with special repair and cast mortar at least 7 days before adhesive application.

Application:

Application with a roller as primer:

- Eponal 321 epoxy primer resin is slowly added on the hardener while mixing thoroughly with a low-speed mixer until obtaining a homogenous colour and mixture.
- The freshly obtained mixture should be used within 30 minutes.
- Studded shoes should be worn to be able to walk on the fresh resin layer.
- Use a spiked roller to help aeration and to avoid bubbles inclusion.

Application with a trowel as repair mortar:

- Mix 1 part of EPONAL 321 blend with 5 to 12 parts of quartz sand (0.1 to 1.5mm) depending on the use, then apply the mixture onto tacky primer coat (ie after 1 hour at 20°C) using a trowel or straight edge.

After application :

- In the first days, newly applied surfaces should be protected from direct sunlight, severe air stream, high temperatures (over +35°C), adverse air conditions such as rain and frost.
- After application, clean the hand tools with water or MEK (Methyl Ethyl Ketone) immediately.

Coverage :

App. 0,3 to 0,4 kg/m² as primer.

App. 0,3 kg/m³ per 1mm thickness as mortar.

The coverage amounts are theoretical and it is recommended to do coverage-controlled sample application before treatment.

Packaging :

5 and 25 kg metal kits in sets.

Storage :

- The opened products should be protected for water, frost and adverse weather conditions.
- They should be kept dry and cool on wooden pallets.
- The torn and opened products should be closed immediately and consumed first.
- Shelf life is maximum 12 months conditional to complying with the abovementioned storage conditions.

Risk Signs :

R23/24/25 : Poisonous when inhaled, swallowed and contacted with skin.

Security signs:

S2: Keep out of reach of children.

S3: Keep cool.

S9: Keep the package dry.

S26: Rinse with water thoroughly when contacted with eyes and consult a doctor.

S28: Rinse with water thoroughly when contacted with skin and consult a doctor.

S29: Do not throw in the drain.

S36/37/39: Wear suitable protective clothing, protective gloves and glasses / mask during the operation.

BOSTIK is only responsible for the product quality and cannot be held responsible for its mis-use except for the recommendations regarding where and/or how the product shall be used. This technical bulletin hereby is valid until it is renewed. BOSTIK's right to amend the products in accordance with technical developments is reserved.



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