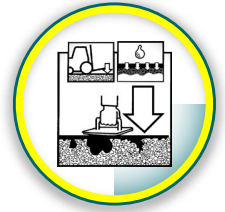




# TOPOLINE 921



## TWO INGREDIENT EPOXY RESIN FOR THE FORMATION OF SYNTHETIC GROUND.

### PRODUCT DESCRIPTION

Solvent-free, 2-ingredient **epoxy resin** for the formation of 1 to 4 mm synthetic, self-smoothing coatings offering resistance to significant chemical and mechanical stress. **TOPOLINE 921** can be mixed with quartz sand, which we supply in suitable proportions and grain sizes.

### FIELDS OF APPLICATION

Storage and production halls, workshops, loading ramps, repairs to damaged concrete floors and passageways.

For any concrete or cement floor which needs to resist **numerous chemical agents and mechanical stresses** in the chemical, pharmaceutical, food and other industries.

### CONSUMPTION

The consumption rate depends on the degree of regularity of the surface and the quantity of quartz sand added to the **TOPOLINE 921** resin.

Per mm thickness and per m: approx. 2 kg resin + quartz mix in ratio 1: 1 (by weight).

### PHYSICAL PROPERTIES

- Appearance: grey liquid
- Viscosity: 1,500 - 2,000 cps
- Density: 1.5
- Mix ratio:

80 parts resin  
20 parts hardener, by weight

### PREPARING THE PRODUCTS

**TOPOLINE 910** primer and **TOPOLINE 921** binder are supplied in precise, prebatched quantities.

**Primer:** add the hardener to the resin, and mix thoroughly for 1 to 2 minutes.

### APPLICATION

The self-smoothing mortar is applied using a float or toothed spatula. It is advisable to use the bubble-removing roller on the freshly laid surface.



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## FINAL DRYING

The product's maximum resistance rating is reached after approx. 5 - 7 days of drying.  
The process is slower at lower temperatures.

**Mortar:** after the hardener and resin have been mixed, the binder made in this way should be added to and mixed with aggregate, if possible in a revolving mixer or trough mixer, slowly and constantly for 3 minutes minimum. A handheld mixer (slow rotation, maximum 400 rpm) can also be used.

## RECOMMENDATIONS FOR APPLICATION

### Preparing the surface

The **surface** (concrete or screed) **should be slightly rough, solid** and free from crumbling. Surfaces which are insufficiently solid or stained with oil should be prepared mechanically, for example by sandblasting, bush-hammering, torching or grinding.

The surface must be **dry and dust-free**.

**Surface temperature:** +5°C minimum.

## METHOD OF APPLICATION

Usually, a roller is used to apply a layer of **TOPOLINE 910 Primer** at a rate of 0.250 kg/m. This seals any pores and consolidates the surface. This layer must be dry (approx. 12 hours) before the **TOPOLINE 921** coating is applied.

## WORKING TIME

**TOPOLINE 921** (pure resin): 20 - 25 min. at +25°C for 400 gr

**TOPOLINE 910 Primer:** 25 - 30 min. at +25°C

These times vary depending on the temperature. They are longer at lower temperatures and shorter at higher temperatures.

Cleaning tools: **Topclean**

## MECHANICAL CHARACTERISTICS ON PURE RESINS

- shore hardness: 75 - 80 shore D
- resistance to **compression**: 550-600 daN/cm<sup>2</sup>
- resistance to **traction**: 350-400 daN/cm<sup>2</sup>
- resistance to **bending**: 450-500 daN/cm<sup>2</sup>
- **modulus of elasticity** during bending: 23,000-25,000 daN/cm<sup>2</sup>
- TG (glass transition): 55°C



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## CHEMICAL RESISTANCE

Tests conducted on product stabilised for one month at room temperature.

Chemical resistance after one month expressed as a % of:

Absorption represented by +

Loss represented by -

Variation in shore A hardness with **initial value of 85.**

Water: + 0.582

Sodium hypochlorite 5%: - 1.580

3% solution of sodium chloride: + 0.580

5% hydrochloric acid: + 180

Methanol: + 0.145

Ethanol: + 455

Acetone: + 440

Trichlorethylene: + 3042

Xylene: + 670

Fuel oil: 0.83

30% hydrochloric acid	183
5% caustic soda	275
50% caustic soda	0.285
10% phosphoric acid	1.580
50% sulphuric acid	0.483

## STORAGE

Approx. 1 year in sealed containers, stored in a cool, dry place.

## HEALTH AND SAFETY ADVICE

The hardener used in **TOPOLINE 921**, as supplied before mixing with the resin, is caustic and harmful to the eyes and mucous membranes; avoid splashing. The hardener is harmful to the skin, especially if the skin is cleaned with **TOPCLEAN** or a cleaning product and has lost its natural oiliness, or if the user has cuts and sores. It is advisable to coat the skin with non-greasy cream and use gloves and protective goggles for mixing.

This technical notice is the outcome of research and long experience. However, we accept no liability for its contents, as successful use of the product depends on taking account of all the circumstances at the time of use. We recommend the performance of preliminary tests in order to see whether the product is suited to the planned application. **UPDATE 07/1999**



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