BYK EP PRIMER 9003-2K

Solvent Free Impragnated Epoxy Primer

BYK EP PRIMER 9003–2K Two component solvent free epoxy based impragnated primer.

PLACES OF USAGE

- 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.

ADVANTAGES

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

TECHNICAL SPECIFICATIONS

Color	: Transparernt	: -
Density	: 1,05±0,05 g/cm3	: ASTM D1475 / DIN 53217 / ISO 2811, @ 20oC
Hardness	: 95 Shore D	: ASTM D2240 / DIN 53505 / ISO R868
Mixture Ratio (A+B)	: 60:30 By weight	: -
Solid Content (A+B)	: %100	: -
Mixture Pot Life (+25oC)	: 25-35 minutes	: DIN 16945
Thinning	: Not recommended	: -
Applicaiton Tools	: Rollers, Brush	: -

NOTE: Flammable and exploision products should be kept away during the application. Protective gloves and masks should be used for hands and 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 su¬cient water. Childrens should kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

Curing Time

Temp.	Pedestrian Traffic	Mechanical Strength	Chemical Strenght
+10 oC	24 hours	5 days	10 days
+20 oC	12 hours	3 days	7 days
+30 oC	16 hours	2 days	5 days

Recoating Time

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

Chemical Resistance Table

Chemical Name	Result
Sülfirik Asit (H2SO4) %10	3-2
Sülfirik Asit (H2SO4) %20	3-2
Hidroklorik Asit (HCL) %10	3-2
Hidroklorik Asit (HCL) %20	3-2
Nitrik Asit (HNO3) %10	3-2
Nitrik Asit (HNO3) %20	3-2
Asetik Asit (CH3COOH) %10	3-2
Asetik Asit (CH3COOH) %20	2
Laktik Asit (CH3CHOH-COOH) %10	2
Laktik Asit (CH3CHOH-COOH) %20	2
Formik Asit (HCOOH) %10	2
Formik Asit (HCOOH) %20	2-1
Ksilen	2
Etil Alkol	2
Solvents	2

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

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.

BYK EP PRIMER 9003-2K

Solvent Free Impragnated Epoxy Primer

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.

Mixing Ratio
A+B: 12,5 + 5 (by weight)

Mixing
Component A is mixed with a low-speed mechanical mixer (300–400 rpm) until a homogeneous consistency is achieved. Component B is then added into Component A and mixing is continued until the blend becomes completely homogeneous. The material is applied to the surface using a spatula or trowel. The prepared mixture must be used within a maximum of 35 minutes. Only mix the quantity of product that can be applied within the pot life.

Mixing Conditions
Relative humidity and dew point must be checked prior to application. Application should begin only if the conditions are suitable. The prepared mixture must be consumed within a maximum of 35 minutes. Repair and leveling works should be carried out at least 8 hours after the previously applied epoxy primer.

Packaging
A+B: 12,5+5 =17,5 kg (set) in metal buckets.

Consumption
Min. Total consumption: 0,3 – 0,5 kg/m2

Shelf Life
It can be stored in its original unopened buckets in dry conditions at temperatures between 5°C and 25°C for a minimum of 12 months. Containers of unmixed components must be kept hermetically sealed until the next use.

Safety Precautions
Flammable and combustible products should be kept away during application. No smoking. Take care to ensure continuous ventilation of the application area. Protective equipment such as goggles and gloves should be used during application. In case of eye contact, rinse thoroughly with plenty of water. Ask for Material Safety Data Sheet for detailed information. Keep out of the reach of children. The product must be used by professional users, taking into account the data in the technical information section.

Responsibility
The data contained in this white paper is based on our scientific and practical knowledge. **DEMIRKOL TAAHHUT INSAAT SANAYI VE DIS TICARET LTD. STI.** is only responsible for the quality of the product. **DEMIRKOL TAAHHUT INSAAT SANAYI VE DIS TICARET LTD. STI.** cannot be held responsible for the consequences of using the product outside the written recommendations on how and where to use the product and/or misuse. The user is responsible for the correct application of our product. Our company is only responsible for the quality of the product. This catalog supersedes the information contained in the previous catalog. Our company rezerves the right to make changes in all kinds of information and content details in this catalog. It is essential to check that the information in the catalog is up-to-date and valid.