

Capalac 2K-EP-Haftgrund

2-component, epoxy resin wash primer for critical substrates and anti-corrosion coating for iron and steel. For exterior and interior use.



Product Description

Field of Application

Adhesion-promoting primer for one- and two-component finishing coatings on non-absorbent, rigid substrates, e.g. surfaces of melamine resin materials, rigid (unplasticized) PVC, powder coatings, existing 2-component coatings, aluminium (not anodized), zinc plates, hot-dip galvanized steel and many more substrates after being tested for sufficient adhesion. Corrosion protection primer for iron and steel components. Do not use for roofing.

Material Properties

- High adhesive strength.
- Excellent corrosion protection.
- Universally recoatable.

Material Base / Vehicle

2-component epoxy resin with anti-corrosion pigments. Solvent based.

Packaging/Package Size

1 kg, 10 kg tin-combi-packaging
400 ml 2-component spray can

Colours

- Approx. RAL 7035 Lichtgrau (Light Grey)

Gloss Level

Matt.

Storage

Keep in a cool place and keep the packaging tightly closed. Store the spray can with attached cap.

Technical Data

- Density: Combi-packaging: approx. 1.5 g/cm³
Spray can: approx. 0.7 g/cm³

Suitability according to Technical Information No. 606 Definition of Application Areas

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
○	○	○	+	+

(-) inapplicable / (○) of limited suitability / (+) suitable

Application

Suitable Substrates

Surfaces of melamine resin materials, rigid/unplasticized PVC, powder-coatings*, sound/stable existing 2-component coatings, iron, steel, aluminium (not anodized), zinc plates, hot-dip galvanized steel and many other substrates after being tested for sufficient adhesion.

* Due to the numerous different powder-coatings a test for sufficient adhesion is generally recommended.



Substrate Preparation

The substrate must be stable/sound, dry, clean, solid and free from all substances that may prevent good adhesion.

Melamine Resin Surfaces:

Roughen/sand the surface slightly and remove abrasive dust.

Wooden Parts:

Sand the surface in fibre direction, clean thoroughly, remove exuding wood extractives, e.g. wood resin/rosin and resin galls, cut sharp edges (see BFS Data Sheet No. 18).

Rigid/Unplasticized PVC:

Wash with ammoniacal wetting agent as per BFS Data Sheet No. 22.

Powder-Coatings:

Roughen the surface and clean thoroughly, using fine abrasive papers as per BFS Data Sheet No. 24.

Zinc Plates and Hot-Dip Galvanized Steel:

Wash with ammoniacal wetting agent or sweep blasting as per BFS Data Sheet No. 5.

Aluminium:

Sand/grind with an abrasive fabric and clean with a diluent for cellulose lacquers or phosphoric-acidic cleaning as per BFS Data Sheet No. 6.

Iron, Steel:

Derust by blasting according to industry standard SA 2½, as per DIN EN ISO 12 944 Part 4.

Mixing Ratio

Base : hardener = 9 : 1 parts by weight

Method of Application

Capalac 2K-EP-Haftgrund can be applied by brush, roller or spraying equipment. Add the hardener to the base material and stir intensively by hand or with a low-speed electrical paddle (max. 400 rpm). Then pour the material in another container and mix again, until a homogenous streak-free shade, is achieved. Temperature of both components should be 15 - 20 °C.

Do not dilute the material for roller or brush application. Adjust to spraying consistency using thinner Disboxid 419, if necessary. The subsequent coatings must be applied after a drying time of min. 16 hours to max. 24 hours, to avoid diminished adhesion. After a waiting time of more than 24 hours: The surface of Capalac 2K-EP-Haftgrund must be slightly roughened (sanded).

How to Activate the Spray/Aerosol Can:

Shake the can intensively for min. 2 minutes before use. The metal balls inside the can must be hearable. Remove the protecting cap from the can's base. Use the inserted curl/ring to pull out the pin to the stop. Turn around the ring (360°) to set the hardener free. Then shake the can very intensively to ensure a homogeneous mixture of hardener and base material.

Spraying distance to the surface of components parts should be between 20 - 30 cm. Always spray thin, even cross coats (cross spraying). The following coatings must be applied after a drying time of min. 16 to max. 24 hours, to avoid diminished adhesion. After a waiting time of more than 24 hours: The surface of Capalac 2K-EP-Haftgrund must be slightly roughened (sanded).

Surface Coating System

Substrate	Use	Substrate Preparation	Priming Coat	Intermediate Coat	Finishing Coat
Melamine resin surfaces	interior	sand/grind/roughen	Capalac 2K-EP-Haftgrund	Capalac enamels or Capacryl enamels white or pigmented (coloured paints)	Capalac enamels or Capacryl enamels white or pigmented (coloured paints)
Rigid PVC	interior/exterior	BFS Data Sheet No. 22			
Powder-coating	interior/exterior	BFS Data Sheet No. 24			
Zinc plates, hot-dip galvanized steel	interior/exterior	BFS Data Sheet No. 5			
Iron, Steel	interior/exterior	SA 2 ½, DIN EN ISO 12944 T 4			
Aluminium	interior/exterior	BFS Data Sheet No. 6			
Stable existing 2-component coatings	interior/exterior	roughen, clean the surface			

Consumption	<p>Approx. 120 - 170 g/m². Consumption is approx. 30 % higher for spray application. Spreading rate of spray/aerosol can: Approx. 1.5 m² per can. Consumption is a reference value and may vary, depending on the substrate's condition, applied coating thickness and spraying distance.</p>
Workability	<p>(Pot Life/Potlife/Can-Time)</p> <ul style="list-style-type: none"> ■ Combi-Packaging: Approx. 8 hours at 20 °C. Higher temperatures shorten, lower temperatures extend the pot life. ■ Spray Can: Approx. 2 days at 20 °C. Higher temperatures shorten, lower temperatures extend the can-time. <p>Note: Please empty the nozzle valve for longer breaks within pot life. Therefore turn the can upside down and press the nozzle valve until no more material is released.</p>
Application Conditions	<p>Material, Ambient and Substrate Temperature: Min. 8 °C, max. 30 °C during application and drying. Relative humidity must not exceed 80 %. Substrate temperature should always be min. 3 °C above the dew point temperature.</p>
Drying/Drying Time	<p>Dust dry: After approx. 40 minutes. (Spray/aerosol can: 10 minutes) Recoatable: After 16 hours at the earliest, but within max. 24 hours, either with the same material or with finishing enamels. When exceeding the time limit the surface must always be roughened (sanded/ grinded) to ensure proper adhesion of the following coat.</p> <p>Reference values at 20 °C and 65 % relative humidity. Higher temperatures, e.g. caused by direct sunlight, will significantly shorten the curing time. If so, the finishing/top coat must be applied correspondingly earlier or the priming coat has to be prepared by roughening (sanding/grinding).</p>
Tool Cleaning	<p>After use with thinner Disboxid 419.</p>

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Restricted to professional users.

Mass (Base Material) / Component A:

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ eye protection. Contains: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700).

Hardener / Component B:

Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Contains: 1-methoxy-2-propanol, Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine, 2,4,6-tris (dimethylaminomethyl)phenol, 3,6,9-triazaundecamethylenediamine.

2-Component Spray Can:

Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe vapours/ spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Contains: xylene, reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures.
In Germany: Only completely empty cans should be handed in for recycling. Dispose liquid and dried/hardened product as paints waste containing organic solvents or other dangerous substances. Uncured product residues are special/hazardous waste.

EU limit value for the VOC content

of this product (category A/j): max. 500 g/l (2010). This product contains max. 500 g/l VOC.

Giscode

RE3 (Germany)

Further Details

See Material Safety Data Sheets (MSDS).

Customer Service Centre

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