

DisboCOR 493 SpeedColor



Brilliant-colored, fast drying protective coating suitable for metal facades

Product Description

Field of Application	Surface protection for facades and facade components made of galvanised sheet steel, coil coated metal sheets, aluminium sheets (but not anodised), sheet copper and rigid/unplasticized PVC. For facades with different substrates it is also suitable for concrete and cement plasterwork. For outdoor application.
Material Properties	<ul style="list-style-type: none"> ■ high brilliance of colour ■ high resistance to ultraviolet rays, weather-resistant ■ cleanable surface ■ fast-drying and quickly rain resistant ■ reversible ■ resistant to alkaline substances
Material Base / Vehicle	Methacrylic resin, solvent-based
Packaging/Package Size	<ul style="list-style-type: none"> ■ 5 kg ■ 11 kg
Colours	<p>Basis for tinting according to RAL - color chart, NCS- and 3D-System PLUS colours</p> <p>Standard: white (approx. RAL 9010)</p> <p>Color persistence acc to German BFS-Merkblatt Nr. 26: Resin: Class A Pigmentation: Group 1 to 3 depending on colour shade</p>
Gloss Level	mat - silk mat
Storage	<p>Cool, dry and frost-protected</p> <p>Originally closed container 36 months storage-stable.</p> <p>At lower temperature please store the material at 20 °C prior to processing.</p>
Technical Data	<ul style="list-style-type: none"> ■ Density: 1.2 kg/l (depending on colour shade) ■ Flash point: 43 °C ■ Solids content: 61 - 66 % (DIN EN ISO 3233-2)(depending on colour shade) ■ Temperature resistance: Dry: up to 60 °C Above 55 °C the coating starts to soften (thermoplastic), at lower temperatures the coating hardens again. The resistance against mechanical stress declines above 55°C with raising temperatures.
Chemical resistance	Good resistance against mineral oils, grease, fat, wax, cleaning agents and salt solutions.

Application

Suitable Substrates

Elements of:

- coil coating sheets
- galvanized steel
- zinc sheets
- aluminium sheets (not anodised)
- copper sheets
- PVC
- concrete and cement

Because of the fast surface drying of DisboCOR 493 SpeedColor, the substrate must be free of pores and voids. Otherwise small bubbles can arise on concrete and cementous surfaces.

Substrate Preparation

The surface has to be dry and free of fat, oil, dirt, dust and separative acting materials.

■ **Coil coating / old coatings**

Compatible old coatings can be overcoated after suitable surface preparation and adequate adhesion and compatibility with DisboCOR 493 SpeedColor. When in doubt, a coating test area is recommended.

Good adhering coatings must be cleaned (ISO 8504) and roughened, chalking residues must be removed completely.

Corroded spots are to be grit blasted PSa 2 ½ or cleaned very thoroughly by hand or power tool to PSt 3 or PMa (DIN EN ISO 8501-2) and touched up with a suitable prime coat (e. g. DisboCOR 872 2K-EP Primer ST).

Bad adhering coatings are to be removed completely by grit blasting Sa 2 ½, hand or power tool cleaning St 3 (both DIN EN ISO 8501-1) or water jetting Wa 2 ½ (ISO 8501-4), flash rust grade M and prime coated with an appropriate prime coat.

■ **Galvanized steel and zinc sheets:**

Remove white rust and other contamination by grinding (abrasive paper or pad), ammonia-water solution containing wetting agent or sweep blasting (DIN EN ISO 12944-4). Corroded spots have to be cleaned very thoroughly by hand or power tool to PSt 3 (DIN EN ISO 8501-1) and touched up with suitable prime coat (e. g. DisboCOR 872 2K-EP Primer ST).

■ **Aluminium, copper and PVC:**

Remove all native and foreign impurities. Surface must be sweep blasted (DIN EN ISO 12944-4).

Preparation of Material

Stir up well, if required thinner DisboADD 499 can be added.

Method of Application

- Brush
- Roller (low-pile roller)
- Airless spray application (spray nozzle pressure 180 - 220 bar, nozzle size 0.25 mm respectively 0.01 inch); use piston or capable membrane pump.

Thinner allowance:

For airless spray application, up to 10 % DisboADD 499 can be added, depending on the dry film thickness and application conditions.

Layer Thickness

Dry film thickness 65 µm, equals 100 µm wet film thickness

Surface Coating System

Substrate Surface	Location		Surface Preparation	Prime Coat	Intermediat Coat	Top Coat
Coil coated facade sheets	outdoor		cleaning	DisboCOR 873 2K-EP Zwischenschicht EG ¹⁾ or Capalac 2K-EP-Haftgrund ¹⁾ or Capacryl Haftprimer ¹⁾	DisboCOR 493 SpeedColor ²⁾	DisboCOR 493 SpeedColor
DisboCOR 493 SpeedColor or comparable reversible coatings other manufacturers (particularly PMMA)	outdoor		cleaning	DisboCOR 493 SpeedColor ²⁾	-	DisboCOR 493 SpeedColor
Galvanized sheets or zinc sheets	outdoor		acc. to BFS-Merkblatt Nr. 5	DisboCOR 873 2K-EP Zwischenschicht EG or Capacryl Haftprimer	DisboCOR 493 SpeedColor ²⁾	DisboCOR 493 SpeedColor
Aluminium- or copper sheets	outdoor		acc to. BFS-Merkblatt Nr. 6	DisboCOR 873 2K-EP Zwischenschicht EG or Capacryl Haftprimer	DisboCOR 493 SpeedColor ²⁾	DisboCOR 493 SpeedColor
PVC	outdoor		acc. to BFS-Merkblatt Nr. 22	DisboCOR 873 2K-EP Zwischenschicht EG or Capacryl Haftprimer	DisboCOR 493 SpeedColor ²⁾	DisboCOR 493 SpeedColor
Concrete and cementous plasterwork	outdoor		cleaning	Dupa HaftGrund	DisboCOR 493 SpeedColor ²⁾	DisboCOR 493 SpeedColor

¹⁾	Damaged areas in existing coating must be prepared in compliance with the particular surface and touched up with suitable prime coat (e. g. DisboCOR 872 2K-EP Primer ST).
²⁾	For dark and contrasted colour substrates and colours with worse hiding power (e. g. red, yellow, orange) an additional prime or intermediat coat might be required.

Hint: On powder coated, coil coated or other critical substrates a test area shall be prepared in advance and adhesion shall be tested.

Do not use DisboCOR 493 SpeedColor on surfaces that are in continuous contact with softener containing plastics (e. g. weels of cars or bikes). Do not apply on continuously wet surfaces or areas with stagnant water.

Horizontal uncoated areas of balustrades must be free of cavities and must have a sufficient inclination. Those areas shall be prime coated with DisboPOX 420 E.MI PLUS and be sanded/ sprinkled with DisboADD 942. Afterwards intermediate and top coat shall be applied.

Consumption

■ **Metal surfaces:**

Theoretical: 0.120 kg/m²
 Practical: approx. 0.135 - 0.155 kg/m² (incl. loss)

■ **Mineral surfaces:**

Theoretical: 0.140 kg/m²
 Practical: approx. 0.155 - 0.180 kg/m² (incl. loss)

Consumptions are indicative values depending on surface conditions and application method. Exact values can be determined by testing areas.

Do not apply more than 0.240 kg/m² per coat!

Application Conditions

Do not apply below 5 °C an above 80 % rel. humidity. Substrate temperature shall be continuously 3 K above the dew point, optimal temperature range is at 10 - 25 °C. The product shall not be applied at direct sun radiation, strong wind, rain, heated surfaces etc. VOB Part C (DIN 18363 Chapter 3.1.10) shall be considered.

Waiting Time	1 day between prime and top coat and between 2 top coats; at temperatures between 5 °C and 10 °C up to 2 days. After longer time periods additional coating can be applied after suitable surface preparation.
Drying/Drying Time	At 20 °C and 65 % rel. humidity: <ul style="list-style-type: none"> ■ drying grade 1 (dust dry): 1 hour ■ rain resistant: 2 hours ■ recoatable: 12 hours <p>Lower temperatures, higher humidity and higher thicknesses will decelerate the drying time.</p>
Tool Cleaning	Equipment and tools shall be cleaned with DisboADD 499.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<ul style="list-style-type: none"> ■ Basis Weiß: Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF exposed or concerned: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Repeated exposure may cause skin dryness or cracking. Contains: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified, naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha, butan-1-ol, cumene. Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. ■ Basis Transparent: Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Repeated exposure may cause skin dryness or cracking. Contains: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, n-butyl methacrylate, dodecane-1-thiol.
Disposal	Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.
EU limit value for the VOC content	EU limit value for the VOC content of this product (category A/i): 500 g/l (2010). This product contains max. 450 g/l VOC.
Giscode	BSL50
Customer Service Centre	<p>Tel.: +49 6154 71-71710 Fax: +49 6154 71-71711 e-mail: kundenservicecenter@caparol.de</p> <p>International Distribution: Please see www.caparol.com</p>

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