

# Disboflex 480 Metallschutz

Elastic, acrylic dispersion-based, metal protective coating



## Product Description

Field of Application	Surface protection for steel constructions, sheet metal roofing, roof gutters, and profiled sheeting facades. Unsuitable for areas subjected to permanent moisture, e.g. in tanks, storage tanks, and impounding basins. Due to the high elasticity Disboflex 480 Metallschutz cannot be coated with other materials.
Product Properties	<ul style="list-style-type: none"> <li>■ High elasticity and adhesive strength</li> <li>■ No priming required</li> <li>■ Resistant to diluted mineral acids, alkalis and salt solutions</li> <li>■ Unleaded and free of chromate</li> </ul>
Product Base / Vehicle	Styrene acrylic dispersion
Packaging/Package Size	15 l plastic bucket
Colours	Light Grey (approx. RAL 9002) Special tints are available on request (minimum order: 200 l)
Gloss Level	Silk matt
Storage	Kepp in a cool, dry and frost-free place. Shelf life of the original, tightly closed packaging: 4 years.
Technical Data	<ul style="list-style-type: none"> <li>■ Density: approx. 1.3 g/cm<sup>3</sup></li> <li>■ Solids content: approx. 64 % by weight</li> <li>■ Dry film thickness: approx. 55 µm/100 ml/m<sup>2</sup></li> <li>■ Ultimate elongation to DIN 53504: ca. 200 %</li> </ul>

## Application

Suitable Substrates	Iron, steel, galvanised steel, aluminium (not anodized), zinc, factory-made (coated) profiled sheeting, copper. The substrate must be dry, clean, sound, free from oil, grease/fat or rust and all separating material that may prevent good adhesion. Do not apply to surfaces with existing bituminous coatings or paint coatings containing plasticizers. In case of doubt a trial application is recommended.
Substrate Preparation	Derust all iron and steel surfaces. In case of corrosion caused by aggressive chemical substances: Derust the substrates thoroughly to achieve a metallic bright surface. Clean aged or weathered zinc and galvanized steel with a high pressure water jet, adding a wetting agent, as well as using a non-metallic brush.



	<p>Roughen new zinc or galvanized steel surfaces slightly with a scouring pad (e.g. Scotch Britt) and then wash with a 5% solution of ammonia (see BFS-data-sheet No. 5). Thereafter the surfaces should be sufficiently rinsed with tap water.</p> <p>Degrease copper and aluminium surfaces thoroughly and clean with a high pressure water jet and a non-metallic brush. Clean coated profiled sheeting with a high pressure water jet.</p>
Preparation of Material	The material is ready for use. Dilute with max. 3% of tap water for spray application.
Method of Application	Disboflex 480 Metallschutz can be applied by brush, paint roller or spraying equipment. (Airless max. 150 bar, nozzle size: 0.018 – 0.023 inch.). Spray application is the best method to achieve a uniform surface.
Surface Coating System	Apply Disboflex 480 directly after having finished the substrate preparation. One coat might be sufficient, if the material is spray-applied. Preferably apply two finishing coats of Disboflex 480 Metallschutz with a consumption of 320 ml/m <sup>2</sup> per coat, to guarantee a sufficiently high dry film thickness.
Consumption	Minimum consumption is 640 ml/m <sup>2</sup> . A dry film thickness of 350 µm must be applied in two coats.
Application Conditions	<b>Material, Atmospheric and Substrate Temperature:</b> min. 5 °C, max. 55 °C. Relative humidity should not exceed 80 %.
Drying/Drying Time	At 20 °C and 60 % relative humidity, approx. 5 - 6 hours (recoatable after this period).
Tool Cleaning	Wash immediately after use with water.

## Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains, water courses or onto the ground.
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: Liquid product may not be dumped with household waste. May not be emptied into drains. Liquid remnants of material should harden and then be disposed of as construction site hardened paints or as household waste.
EU limit value for the VOC content	of this product (category A/j): max. 140 g/l (2010). This product contains max. 30 g/l VOC.
Product Code Paints and Enamels	M-DF 02
Further Details	See Material Safety Data Sheet (MSDS). Follow the application references while applying our materials.
Technical Assistance	As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.
Customer Service Centre	Tel.: (+49) 0 61 54 / 71 17 10 Fax: (+49) 0 61 54 / 71 17 11 e-mail: kundenservicecenter@caparol.de  International Distribution: Please see <a href="http://www.caparol.com">www.caparol.com</a>

## Technical Information No. 480 · Issue: January 2012

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 480 · Disboflex 480 Metallschutz · Issued: June 2011

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