

DMS EP-D80 *Broadcasted Epoxy Resin Floor*

Product description

DMS EP-D80 system is a three component epoxy system, designed as epoxy binder containing special fire retardant additives and mineral fillers, such as quartz or granulated granite.

The system is used for anti-slip- and easy to clean floors on different offshore areas.

Total thickness between 2-5 mm.

This Epoxy flooring system consists of 3 different layers.

The thickness of the standard system is 2,5-3 mm and the weight per m² is approx. 4-4,5 kg.

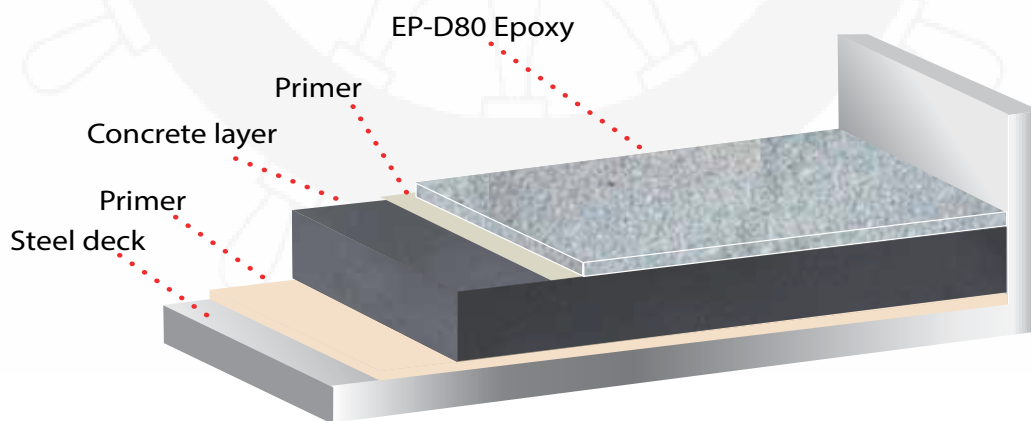
Surface preparation

Steel: Must be clean and free from dust, grit, rust, grease or any other dirt.

Galvanized steel: Must be grit blasted to get rid of the existing salts from the galvanized surface.

Aluminum: Must be grit blasted or grinded to get a good profile in the surface. Coat with wash primer for aluminum to ensure adequate adhesion.

Concrete and wood: Must be dry (less than 5% humidity) and clean - free from dust, oil, grease etc.



Notes

Pot-life for mixed epoxy products is approximately 30 minutes, however do not leave mixed products in mixing bucket container, as the curing process produces heat, that will cause accelerated curing. To prevent accelerated curing, portion mixed product onto substrate and distribute from there.

Components must be weighed carefully, when not using full sets, to ensure correct mixing ratio.

Always protect skin and eyes from contact with epoxy – use protective clothing, gloves and eye protection.

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Primer

DMS EP-D80 Primer 15 kg consists of two components. Components come pre-weighed and are ready to mix. (If divided, components must be carefully weighed, in correct mixing ratio (A:B) 3,2:1)

Mixing and application

Mix with suitable mixing equipment, such as a sturdy drill with mixing propeller. When mixture is homogeneous, transfer to other container and mix for another 1-2 minutes.

Apply DMS EP-Primer with trowel or roller. While primer is wet, surface must be strewn with 0,3-0,7 quartz sand.

Consumption

On average approximately 300 g EP-Primer and 500 g sand/m². Excess sand must be removed, by vacuuming, from cured base coat before applying next coat.

Curing

Approximately 8 hours at +20°C and 80% RH. Temperature will influence curing time, low temperature may cause prolonged curing, high temperature may cause accelerated curing.

Chemical base of Primer

Basis	Epoxy-resin part - mix of Bis. A/F resins, fire retardant additives and reactive thinners Epoxy-hardener – mix of IPDA, phenalkamine, other amines and benzyl alcohol
Density	Ready mix about 1,15 kg/l
Solids	100 %
Viscosity	Ready mix about 800 cp. at 20°C
Hardness/shore D	>50 D after 24 hours at 20°C >70 D after 7 days at 20°C
Temperature	Do not use below 10°C
Air humidity	Max 85% RH Observe condensation point

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Middle layer / slurry

DMS EP-D80 Base 17,5 kg consists of two components. Components come pre-weighed and are ready to mix. (If divided, components must be carefully weighed, in correct mixing ratio (A:B) 5:1)

Mixing and application

Mix with suitable mixing equipment, such as a sturdy drill with mixing propeller. When mixture is homogeneous, transfer to other container and mix for another 1-2 minutes.

DMS EP-Base is applied over the sand strewn and cured primer layer using a steel trowel. During application, the wet base coat is strewn with 0,5-1 mm quartz sand or granite granulate.

Consumption

On average 0,7-0,9 kg EP-Base & 3,5 kg sand or granite/m².

Excess sand must be removed, by vacuuming, from cured base coat before applying next coat.

Each middle/slurry layer will add 2 mm to the total coat thickness. Coat thickness can be adjusted by adding extra slurry-layers.

Curing

Approximately 8 hours at +20°C and 80% RH. Temperature will influence curing time, low temperature may cause prolonged curing, high temperature may cause accelerated curing.

Chemical base of middle layer / slurry

Basis	Epoxy-resin part - mix of Bis. A/F resins, fire retardant additives and reactive thinners. Epoxy-hardener – mix of IPDA, Jeffamine and benzyl alcohol
Density	Ready mix about 1,3 kg/l
Solids	100 %
Viscosity	Ready mix 1800 cp. at 20°C
Hardness/shore D	>50 D after 24 hours at 20°C >70 D after 7 days at 20°C
Temperature	Do not use below 10°C
Air humidity	Max 85% RH Observe condensation point

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Topcoat

DMS EP-D80 Topcoat 15 kg comes as clear and consists of two components.

Components come pre-weighed and are ready to mix. (If divided, components must be carefully weighed, in correct mixing ratio (A:B) 3:1.

Mixing and application

Mix with suitable mixing equipment, such as a sturdy drill with mixing propeller. When mixture is homogeneous, transfer to other container and mix for another 1-2 minutes.

Apply over sand strewn slurry/middle layer using a plane steel trowel. Depending on wanted finish, topcoat can be adjusted by rolling with floor roller.

Consumption

on average 0,6-0,8 kg/m²

Curing

Initial cure approximately 24 hours at +20°C and 80% RH. Floor can be used with care after 24 hours and fully used after 48 hours.

Chemical base of topcoat

Basis

Epoxy-resin part - mix of Bis. A/F resins, fire retardant additives and reactive thinners
Epoxy-hardener – mix of IPDA, Jeffamine and benzyl alcohol

Density

Ready mix approx. 1,1 kg/l

Solids

100 %

Viscosity

Ready mix 700 cp. at 20°C

Hardness/shore D

>50 D after 24 hours at 20°C
>70 D after 7 days at 20°C

Temperature

Do not use below 10°C

Air humidity

Max 85% RH
Observe condensation point

Packaging

- 15 kg set EP-D80 Primer
- 17,5 kg set EP-D80 Base
- 15 kg set EP-D80 Topcoat
- 25 kg bag Coloured Sand

Cleaning

Tools and equipment have to be cleaned with a solvent.

Shelf-life

The shelf-life is min. 12 months in unopened packaging.

Storage

In dry conditions, do not expose to moisture and freezing temperature.

For additional technical information, please contact our technical department.

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- a Cruise in Quality

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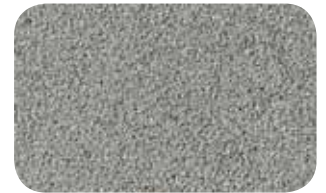
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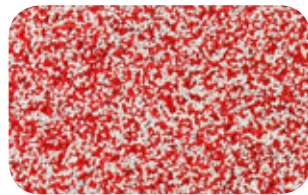
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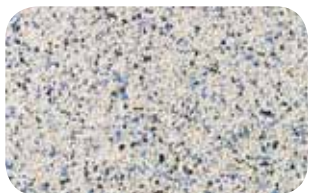
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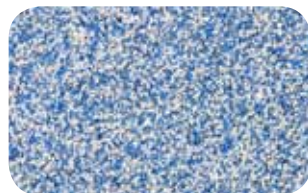
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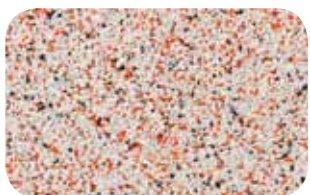
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