HI EP Deck Coat

Technical Data

Last modified: 03/2011

Characteristics & Specification Data

Description	HI EP Deck Coat is a two-pack, solvent-free self-levelling flooring compound.
Characteristics	HI EP Deck Coat can be applied as a 1,5-2,0 mm self-levelling system or as a slurry/Heavy Duty slurrysystem in thickness of 3-8 mm. HI EP Deck Coat is a wear resistant, shock resistant and anti-skid (slurry) system and provides a smooth and seamless floor with high chemical resistance. The system has very good adhesion to blastcleaned steel and several types of steel primers (e.g. HI EP Sealer). HI EP Deck Coat cures quickly and cures down to 5°C.
Area of application	HI EP Deck Coat is designed particularly as a high performance coating for "Heavy Duty" deck systems for ships and offshoreinstallations. Recommended for decks, helidecks, walkways, heavy duty traffic areas, loading areas etc.
Color	Grey, green and blue.
Finish	N.A.
Primers	Apply to primed surface.
Topcoats	Can be overpainted with solvent-free epoxy.
Dry Film Thickness	1,5-2,0mm
Wet Film Thickness	N.A.
Solids Content	100%
Theoretical Coverage Rate	As self-levelling system, 2-2,7 kg/m². As slurry, see table of consumption
Dry Temperature Resistance	Softens if more than 60°C.

Consumption

Slurry	Light/medium traffic	Heavy Duty	
	3 mm	5 mm	8 mm
HI EP Deck Coat	2,2 kg/m²	2,5 kg/m²	2,5 kg/m²
Quartzsand, 0,8-1,2 mm	5,5 kg/m²	-	-
Al. oxide 16 mesh	1,3 kg/m²	-	-
Al. oxide 1-3 mm	-	8 kg/m²	-
Al. oxide 3-5 mm	-	-	15 kg/m²
HI EP Deck Top Coat	1,25 kg/m²	1,5 kg/m²	2,0 kg/m²

Surface Preparation

General	Surface cleaned and prepared.
Steel	Consult technical data for HI EP Sealer. The temperature of the steel substrate must be minimum 3°C above dew point.
Concrete	N.A.

Application Equipment

Equipment	Self-levelling system/1st coat slurry: Apply HI EP Deck Coat (A+B) in the required thickness with a notched trowel. Slurry: After application of the 1st coat, broadcast the "wet" coating with aggregate to excess and let dry. Remove the excess aggregate and apply a top layer of HI EP Deck Top Coat with a squeegee. Enclose the aggregates by means of a paint roller.

Mixing & Thinning

Mixing	Mix part A and part B thoroughly with mechanical mixer immediately prior to use.
Mixing ratio	Part A: Part B=4,9:1 (by weight). Part A: Part B=3,1:1 (by volume). The product is delivered in correct mixing proportions.
Thinning	Do not use a thinner.
Pot Life	20 minutes at 20 °C.

Cleaning & Safety

Cleaning	Tools may be cleaned by use of an aromatic solvent such as xylene, toluene or ethylacetate.
Safety	Protective clothing for working with epoxy.
Ventilation	Good ventilation when heating of rooms.
Caution	Consult material safety data sheet.

Application Conditions

	Coating	Surface	Ambient	Humidity
Normal	15-30°C	15-30°C	15-30°C	0-85%
Minimum	10°C	5°C	5°C	0%
Maximum	30°C	50°C	45°C	85%

Do not apply when surface temperature is less than 3°C above dew point.

Technical Data

At 20°C and 50% RH (relative humidity)

Tack free	8 h.
Fully cured	3-5 days.
Specific gravity	1,49 g/cm³.
Viscosity	1500 cp at 25 °C.

Curing Schedule

Temperature	Recoating
5°C	17 h.
10°C	10 h.
20°C	5 h.

Packaging & Storage

Sales Unit	20 kg set.
Storage (General)	To be stored unopened and under dry conditions.
Storage Temperature & Humidity	Storage temperature should be kept between 5-40 °C.
Shelf Life	12 months.

Further information

When other products are to be used together with this material, the technical data sheets must be checked. This is to make sure they are compatible with each other.

After many years experience, Hummervoll Industribelegg AS has a very good technical and practical knowledge. We are happy to assist with our expertise.

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