

## Voga Coal-Tar

PAGE 1/4

VOGEL SYSTEMS Technical data sheet

Date / Revised: 22.09.2020

Product: **Voga Coal-Tar**

Version: 1.0

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### 1. Identification

#### Product identifier

Voga Coal-Tar

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals

Recommended use: for industrial and professional users



#### Details of the supplier of the safety data sheet

E-mail address: [info@vogel-systems.de](mailto:info@vogel-systems.de)

#### Emergency telephone number

International emergency number

## Heavy duty coal tar based epoxy protective coating for concrete

### DESCRIPTION

**Voga Coal-Tar** is two components, solvent free epoxy / coal tar coating system for protecting concrete and metal structures wherever the durability of epoxy coatings and economy of coal tar are required, while the color is of minor importance.

### APPLICATION FIELDS

1. Sewage water stations.
2. Sewage water pipelines.
3. Primer for steel structure when extreme corrosion resistance is required.
4. Petrochemical industry.
5. Underground pipes and foundations.
6. Marine structures.

### ADVANTAGES

- 1.Excellent adhesion to steel.
- 2.Excellent adhesion to all cementitious substrates.
- 3.High build coating.
- 4.Easily brush, roller or mechanical sprayer applied.
- 5.Chemical and abrasion resistant.
- 6.High resistance for salty water.
- 7.Pre weighed packs.
- 8.Glossy coating.

### APPLICATION INSTRUCTIONS

#### ▪ Surface Preparation

##### 1. New poured concrete:

- Allow to fully cure 28 days prior to application.
- Remove any curing membrane by sanding or etching with a strong detergent.

##### 2. Old concrete:

- Thoroughly clean the surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding or grinding.
- Proceed as for newly poured concrete.

##### 3. Previously coated concrete:

- Remove any peeling or degraded paint by sanding or using a paint stripper.
- For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss.
- Treat any areas worn down to the original concrete as bare concrete.
- All damaged areas, cracks and surface irregularities must be repaired and smoothed first

Date of print 22.09.2020

- **Steel**

Steel surfaces must be dry, free from oil, grease, and dirt. For both immersion and nonimmersion service, sandblast cleaning is required to remove all surface contaminants (paint rust, millscale, etc.) from at least 95 % of the surface area of any section. Power tool cleaning is acceptable with specific recommendations. Coating in all cases with prepared metals must proceed without delay and within 4 hours of surface preparation.

- **Mixing**

**Voga Coal-Tar** should be stirred well separately, stir component A (Base) well, then add component B (Curing Agent) gradually with mechanical mixing (preferable) until the homogenous consistency is obtained.

- **Application**

- Apply the first coat of **Voga Coal-Tar** with brush to ensure adhesion with the substrate and to obtain a continuous uniform film thickness.
- Apply the second coat within the recoating interval to achieve the maximum adhesion between the two coats.
- use airless spray, roller or brush for smaller areas or for touch –up the substrate temperature should be minimum 3 °C above the dew point of the air, measure the temperature and relative humidity in the vicinity of the substrate.
- The temperature of the surface should be min 10 °C as the curing process at lower temperature will be considerably retarded.
- **Voga coal-Tar** should not be exposed to water, chemicals or mechanical stress before it is fully cured.

## TECHNICAL DATA

Product characteristics	
Form	Epoxy
Apperance	Black (Mixed)
Solids by volume	100 %
Finish	Hi Glossy
Pot life	50-60 min
Tensile strength	9 N/mm <sup>2</sup>
% Elongation	30 %
Specific gravity	1.35 (after mixing)
Touch Dry	4 Hrs
Recoat	Minimum 1 Day Maximum 3 Days
Final curing	7 Days

## CONSUMPTION

Estimated consumption **Voga Coal-Tar**

0.26 Kg/m<sup>2</sup> for 200-micron D.F.T

Recommended D.F.T 350 microns.

2 coats are recommended depending on application conditions

## CLEANING

Tools and equipment should be cleaned, immediately after use, with solvent. Once product cures, this can only be removed by mechanical means.

## PACKAGING

**Voga Coal-Tar** is supplied in two-component sets of (A+B+) in 5 kg and 20 kg pails.

## SAFETYAND HEALTH

**Voga Coal-Tar** is a non-toxic but direct contact with skin and eyes must be avoided .

- Use rubber gloves and safety goggles when handling, mixing and applying the product .
- If ingested seek medical advice.

## STORAGE

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture , frost and direct sunlight , with temperatures between 5 °C and 30 °C.

## Limitations

1. **Voga Coal-Tar** doesn't contain any hazard materials .
2. **Voga Coal-Tar** is nonflammable.
3. Wear gloves while working.
4. Do not use material at temperatures that may cause premature freezing.
5. Any splash to skin or eye should be washed using clean water.
6. Consult the medical attention if necessary.