chester molecular ®

Technical Data Sheet

September 2015

Chester Surface Protector A

DESCRIPTION:

Chester Surface Protector A is a two-component flowable epoxy composite. The material contains modified epoxy resins and tar-bituminous fillers. Designed to protect against corrosion metal and concrete surfaces. Cures at room temperature.

TYPICAL APPLICATION:

- **PROTECTION OF METAL AND CONCRETE SURFACES AGAINST CORROSION**
- **PROTECTION OF SUMP TRAYS AND TANKS**
- **PIPELINE COATINGS**
- **MARINE BUOYS PROTECTION**

Technical data				
Density	-----	-----	**1,2 ± 0,05 g/cm^3**	
Mix Ratio by Volume	-----	-----	**whole pack**	
Mix Ratio by Weight	-----	-----	**2 : 1**	
Color			**black**	
Temperature Resistance Wet	-----	-----	**60^{O}C**	**176^{O}F**
Temperature Resistance Dry	-----	-----	**80^{O}C**	**248^{O}F**
Minimal Working Temperature	-----	-----	**-50^{O}C**	**-58 ^{O}F**
Working Life (68^{O}F)(20^{O}C)	-----	-----	**3,5 h**	
Time to apply 2nd layer	-----	-----	**up to 24 h**	
Chemical resistance at 20 ^{O}C			**7 days**	

DIRECTIONS FOR USE

Conditions during the application.

The product is not recommended to apply when the ambient temperature is below 5^{o}C (41^{o}F) and the relative humidity is above 90% or when condensation occurs on the surface to be repaired.

Metal surface preparation.

From the surface to be protect you need to delete all kinds of impurities, grease, oil, loose corrosion products, old paint coatings. For pre-cleaning is recommended to use the product Cleanrex, Cleanrex II, Fast Cleaner F-7. The surface of the part to be repaired should be degreased chemically or with a gas burner and mechanically cleaned - by shot blasting, sandblasting or with the use of angle grinders, pin grinding wheels, sandpaper, etc. and then if necessary degrease using the e.g. Chester Fast Cleaner F-7 or Ultra Fast Degreaser F-6.

Concrete surface preparation

The surface must be clean and dust-free and free from loose pieces of concrete. New concrete must be cured for at least 28 days and cleaned of the cement wash. A slight surface dampness is allowed.

Mixing and application of the composition.

The entire contents of the container labelled **Reactor** pour into the container labelled **Base** and intensively mix until the mass is homogeneous. You should aim for the application immediately after preparing the mixture, as the curing reaction starts immediately and any delay reduce the adhesion to the substrate. It is recommended to apply 2 layers of material with a total thickness of 0,5 – 0,6 mm. When applying the second layer, the previous one cannot be fully cured. Recommended form of applications with a brush or spatula. For the best coating properties, the application should be carried out at temperature of 10 ^{o}C -30 ^{o}C (50 – 86^{o}F).

The information contained above refers to the best of our current knowledge and accurate the day of publication. However, its use says under the control of the customer. This Technical Data Sheet cannot hold CHESTER MOLECULAR responsible in anyway. Chester Molecular Research and Development Department, 05-092 Łomianki, Krzywa 20B, Poland, phone +48 22 751 28 06, www.chester.com.pl

chester molecular ®

Technical Data Sheet

September 2015

Chester Surface Protector A

Coverage rate

Using 1kg of the product you can obtain 1,67 m^2 coat of 0,5 mm thickness.
To cover a surface of 1m^2 of 0,5 mm thickness - you need 0,6 kg of the product.
Values given above are theoretical ones. In practice because of various roughness of the surfaces, decrements, irregularity – efficiency of the product may differ by ± 15%

CURE TIME ACCORDING TO THE TEMPERATURE

Ambient temperature °C (°F)	Working life [h]
10 (50)	4,5
20 (68)	3,5
30 (86)	2,0

It should be remembered that the rate of the reaction significantly depends, apart from the ambient temperature, on the quantity of the used material (the bigger mass of the mixed material, the reaction rate increases). The above presented times refer to the mass of 0,25 kg of the composite.

CHEMICAL RESISTANCE

Unless otherwise stated, the tests were carried out at 20 ° C (68°F). The samples were cured for 7 days at the temperature of 20 ° C (68°F).

1 – Prolonged immersion
2 – Short-term immersion
3 – Not recommended

Medium	Odporność chemiczna
Nitric acid 15%	1
Phosphoric acid 10%	1
Acetic acid 5%	1
Amines up to 20%	1
Hydrochloric acid 15%	1
Ammonia 20%	1
Water 60°C(140°F)	1
Sea water	1
Ethanol	2
Phenol 5%	1
Acetone	3
Methylene Chloride	3

Full table of chemical resistance is on the website

OTHER INFORMATION

Storage

The product should be stored in original packaging at temperature between +0°C (32 °F) to +30°C (86 °F).

The information contained above refers to the best of our current knowledge and accurate the day of publication. However, its use says under the control of the customer. This Technical Data Sheet cannot hold CHESTER MOLECULAR responsible in anyway. Chester Molecular Research and Development Department, 05-092 Łomianki, Krzywa 20B, Poland, phone +48 22 751 28 06, www.chester.com.pl