

Technical Data Architecture Coatings

Apcochar –WB-100

Intumescent Coating

Product Description

A water borne intumescent coating for the fire protection of interior section structural steelwork.

Designed Use

- Provides 30, 60 and 90 minutes fire resistance to structural steel.
- Tested in accordance with BS476; Part 21: 1987 by Warrington Fire Research and Building Research Establishment.
- Highly competitive loadings for most steel section sizes giving reduced application costs.
- Easy application properties.
- Topcoats are not required in C1 interior environments. When using topcoats please ensure to check compatibility with Berger Paints manufacturer before application.
- Recommended for on-site application. Off-site applications must be topcoated before being taken outside and carefully handled (See application notes).
- Recommended for interior environments classified as C1,C2, C3 under the definitions in ISO 12944 – 2:1998 with suitable topcoats.

Physical Data

Volume Solids (Based on ASTM D2697)	: 70%+ 2%
Typical Dry Film Thickness	: 200 – 1600 microns
Wet Film Thickness	: 285-2285 microns
Theoretical Coverage	: 1.87 m ² /litre @ 375 microns DFT
VOC “As Supplied” (Based on ASTM D3960)	: Minimal VOCs – EPA Compliant
Colour	: Off White
Finish	: Matt

Application Details – Method Of Application

- **Airless Spray, Brush, Roller** : At 375 microns DFT and RH 70%.

Drying time	Surface Temperature	Dust Free	Hard Dry	Overcoating Interval	
				Minimum	Maximum
	20°C	1 hour	4 hours	4 hours	See Below*
	30°C	40 mins	70 mins	70 mins	See Below*
	40°C	½ hour	50 mins	50 mins	See Below*

* Overcoating

Only overcoat with self or approved topcoat – consult Berger Paints for advice. Maximum overcoating time is indefinite providing the surface is clean and the coating is sound. Coated surfaces must be kept in controlled, dry conditions until topcoated or degradation may occur.

Airless spray @750 microns dft (and RH 70%)

Surface Temperature	Dust Free	Hard Dry (Over coating)
20°C	2 hours	12 hours
30°C	1½ hours	4 hours
40°C	1 hour	3 hours

Additional Information

Thinner	: Fresh Water
Storage Instruction	: Store in dry, cool and shaded area
Flash Point	: Above 55°C
Packaging	: 20 litres
Shelf Life @ 23°C	: 6 months in closed containers

Surface Preparation

Degrease where necessary to SSPC-SP1 solvent cleaning to remove traces of oil, grease and other contamination prior to blasting. All sharp edges should be ground and weld spatter removed. Blast clean to Swedish Standard SIS 05 5900 Sa 2.5 and maximum profile of 75 microns.

Apply one coat Epilux 78, Epilux 76, Epilux 74, Rapid Air Dry 10 primers to a dft of 50-75 microns dft. Kindly contact us for any other compatible primer and topcoats.

Application Notes

Method	: Output fluid pressure tip size
Airless Spray	: Min 3000 psi 21-25 thou
Roller	: Yes
Brush	: Yes
Conventional Spray	: No
Automatic Spray	: No

Mix the paint thoroughly before use.

Brush/roller application will typically give up to 500 microns dft for multi-coat application, but up to 1mm can be achieved.

Highest standard of decorative finish is only likely to be achieved with careful airless spray application. Off-site applications must be allowed sufficient hardening time before moving. Coated sections should be packed and handled so as to minimize damage to coating and prevent ponding by water and should be stored and transported under cover. If possible, handling cleats should be attached to the steelwork to minimize lifting damage. Topcoat must be applied before leaving the shop. On site, all damage should be repaired to original specification.

Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. Do not apply or allow to dry below 5°C, temperatures above 10°C are preferred. During application and drying time of paint coating, the surface should be dry and the relative humidity should not exceed 90%; the RH should be maintained as low as possible. The steel temperature should remain at least 3°C above dew point.

Storage, Safety Information And Precautions

Safety Precautions

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire blanket flames with foam, carbon dioxide or dry chemicals.
- Refer to MSDS for further information.

First-Aid

- Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
- Skin : Wash skin thoroughly with soap and water or approved industrial cleaner.
- Do not use solvent or thinners.
- Inhalation : Remove to fresh air, loosen collar and keep patient rested.
- Ingestion : In case of accidental ingestion, do not induce vomiting. Obtain immediate medical attention.

Disclaimer

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.

This Technical Data Sheet supersedes those previously issued with immediate effect