

AVIKOTE WB 1200 G

On-Site Waterborne Intumescent Coating

PRODUCT INFORMATION

Description

AVIKOTE WB 1200 G Waterborne Basecoat is a white thin film intumescent coating for the fire protection of internal structural steelwork.

Usage / Purpose

AVIKOTE WB 1200 G can provide up to 120 minutes fire resistance.

Finish

Can be applied to a smooth matte finish. A compatible top-seal can be applied if a decorative finish is required.

Colour

White

Packaging

Supplied in 25 kg drums.

Environmental Considerations

Very low VOC. Contains no substances of very high concern

Availability

Only available direct from AVI (see back of leaflet for address and telephone details).

TECHNICAL INFORMATION

Specific Gravity	1.40
Volume of Solids	70% \pm 3%
VOC	30 g/liter

USAGE GUIDELINES

Surface Preparation

- **AVIKOTE WB 1200 G** should be applied onto a clean, undamaged, dry and primed steel surface.
- Certain types of primers can cause adhesion problems and should be avoided. These include:
 - Chlorinated rubbers
 - Bitumen
 - Thermoplastic primers

- AVI have carried out compatibility testing on a wide range of primers and can be contacted us for confirmation of compatibility with **AVIKOTE WB 1200 G**.
- Galvanized surfaces should be prepared by an application of T-wash or mordant solution followed by a compatible non-saponifiable primer. The primer should be applied in accordance with the manufacturer's instructions.
- If a zinc rich primer is used, it is advisable to seal this with a suitable tie coat or travel coat prior to shipment to site. If the steel is left exposed to the atmosphere with just a zinc rich primer, surface salts may build up on the steel. These salts, if not adequately removed, may cause adhesion problems for any subsequent coating applied. Removal of the salts can be achieved by high-pressure washing. If adequate removal of the salts cannot be guaranteed, a suitable tie coat may have to be applied prior to the application of the **AVIKOTE WB 1200 G** Waterborne Basecoat.

AVI should be consulted for technical advice when zinc rich primers or the overcoating of existing paints are specified for use.

Application Conditions

- **AVIKOTE WB 1200 G** is recommended for application and use on dry protected structural steel only.
- If the basecoat is allowed to get wet, it is likely to be damaged – blistering and wrinkling may occur.
- **AVIKOTE WB 1200 G** should only be applied when the air and steel temperatures are above 5°C. Relative humidity should be below 80% for successful application. Steel surface temperature should be a minimum of 3°C above the dew point. Ensure the steel is dry and free from contact with rain or condensation during the application and drying of **AVIKOTE WB 1200 G**.

Application Methods

AVIKOTE WB 1200 G is supplied ready for use and must not be thinned but should be thoroughly mechanically stirred prior to use.

Airless Spraying:

- **AVIKOTE WB 1200 G** may be applied up to a maximum wet film thickness (WFT) of 1.2 mm in a single spray coat comprising of several quick passes. Achieving maximum loadings will depend on site conditions.
- Temperature is above 20°C and relative humidity below 70%. However, before doing this, ensure that the previously applied coat is dry, particularly in the web/flange junctions.
- Airless spray equipment is recommended and should match these guidelines:

Operating Pressure:	2500-3000 psi (175-210 kg/cm ²)
Tip Size:	19-21 thou
Fan angle:	20°-40°
Hose Diameter:	10 mm (3/8") (Internal Diameter)
Hose Length:	Max. 60 meters

Brush/Roller Application:

- For brush application use a "laying on" technique to avoid heavy brush marking.
- Maximum wet film per coat when applied using a brush or roller is 0.6 mm. A short piled roller will produce a light textured finish.
- During application, measure the wet film thickness frequently with the WFT gauge provided to ensure the correct thickness is being applied.
- To use the gauge, insert the teeth into the wet basecoat. The last tooth to be coated indicates the wet film thickness achieved.
- In the event of over or under applications, adjustments to the loading rates of subsequent coats will be required.

Application Advice

The following instructions are for on-site application only. For off-site application, refer to AVI. Ensure that:

- The primer is compatible with **AVIKOTE WB 1200 G** and has been applied correctly.
- The over coating period for the primer has not been exceeded.
- The correct primer is used for galvanised steel.
- All damage to the primer has been repaired & re-primed.

- Site and weather conditions are within specification.
- **AVIKOTE WB 1200 G** has been stored correctly.
- Surface is clean, dry and free from contamination.
- Correct spray equipment is available, if appropriate.
- Application instructions have been read prior to commencement of work.
- Ensure different basecoats are not applied on the same section of steel.
- Equipment should be clean and free from contaminants or dried material.
- Wet film gauges are available for use.

Coverage Rates

Theoretical coverage of 2,000 g/m² based on an applied 1.00 mm dry film thickness.

Cleaning

Spray equipment can be cleaned using water only

Storage

Store in secure, dry warehouse conditions between +5°C and +35°C.

Shelf Life

6 months when stored as recommended in original unopened container.

Disposal

Empty containers with minimal contamination from dried material can be disposed of as non-hazardous waste. Any specific local authority regulations must be adhered to. In case of doubt, further advice should be sought from a specialist waste contractor.

Health & Safety Precautions

Safety data sheets must be read and understood before use.

Technical Service

AVI has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products.