



RENITHERM[®] EP 809

Epoxy Intumescent Coating.



To protect steelwork (structural, divisional and vessels) in a hydrocarbon fire and to preserve functional integrity for a specified period of time.

Product Description:

Renitherm[®] EP 809 is a high performance, high build, solvent free, epoxy intumescent fireproofing coating. Suitable for the protection of steel, aluminium and others from cellulosic fires, hydrocarbon fires (pool and jet fires).

Application Check List:

The following instructions are for on-site application only. Seek our advice for off-site application.

- Ensure that:
- Primer is compatible with Renitherm[®] EP 809 and has been applied correctly.
 - Overcoating time for the Primer has not been exceeded.
 - All damage to the Primer has been repaired and re-primed.
 - Site and weather conditions are within the specification.
 - Renitherm[®] EP 809 is stored correctly.
 - Surface is dry, clean and free from contamination.
 - Correct spray equipment is used.
 - Application instruction have been read before starting of work.

- Different basecoats are not applied on the same section of steel.
- Equipment is clean and free from contaminants or dried material.
- Wet film gauges are available for use.

Surface Preparation:

Renitherm[®] EP 809 should be applied onto a clean, undamaged, dry and primed steel surface only. Contact AUDAX for a complete list of compatible Primers such as Renitherm[®] Primers.

Product Data	Renitherm [®] EP 809
Specific Gravity	1.05, spray applied
Colour	grey
Volume Solids	100 %
VOC	0.00 g/litre
Theoretical coverage:	1.05 kg/m ² at 1.0 mm DFT
Mixing Ratio A : B	2,2 : 1
Flash point Part A Part B Mixed	> 100 °C > 100 °C > 100 °C
Method of Application	Hot twin feed plural spray, airless spray, trowel
Rec. thickness (DTF):	Depends on protect. required
Working pot life	60 min. at 20 °C



Conditions during application

Renitherm® EP 809 should be applied only on surfaces which are clean, dry and free from contamination. All surfaces should be assessed and treated in accordance with ISO 8504.

Application

Renitherm® EP 809 should be applied in accordance with the Basic Installation Instructions.

Mixing

If Renitherm® EP 809 is applied by conventional airless spray or trowel, it is necessary to thoroughly power mix a kit of Renitherm® EP 809. Each component must have been stored at room temperature (+21 °C) for at least 24 hours and power agitated before mixing.

Mixing Ratio

Always mix full units unless application is by hand. Mixing ratio is 2,2 : 1 (by weight)

Working Pot Life

About 60 minutes at 20 °C. Lower temperatures will increase the working pot life; higher temperatures will reduce the working pot life.

Trowel application

Suitable for small areas.

Airless Spraying

Suitable for small areas only. Use equipment with high transmission rates (pressures) of 50 : 1 or higher.

Plural Component Airless Spray

Recommended method for application of Renitherm® EP 809. Equipment from WIWA or other equipment approved by AUDAX.

Thinner / Cleaner

Use AUDAX Thinner EP 100.

Work Stoppages

Do not allow mixed material to remain in hoses, gun or spray equipment. All equipment should be cleaned with AUDAX Thinner EP 100.

Cleaning

Clean all equipment immediately after use with AUDAX Thinner EP 100. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning depends upon temperature, elapsed time and amount sprayed. Empty containers and surplus material should be disposed in accordance with regional regulations.

The following conditions shall apply throughout the application:

Data	
Min. Air Temperature	+10 °C
Steel Temperature	3 °C above dew point
Max. Relative Humidity	85 %
Max. Surface Operating Temperature	+80 °C

Apply Renitherm® EP 809 and thoroughly roll and trowel the material to ensure that total wetting of substrate is achieved.

The best time to overcoat Renitherm® EP 809 is wet on wet or within 12 hours of application.

Special high temperature silica mesh AUDAX SG 10 should be installed in accordance with specific fire design and in accordance with the Basic Installation Instructions. Continue to spray apply Renitherm® EP 809 after mesh application up to the required film thickness.

Only approved equipment shall be used.

Only qualified applicators shall be used for the application of Renitherm® EP 809.

Curing Times

Curing of Renitherm® EP 809 is dependent upon a number of factors including:

- Ambient Temperature
- Relative Humidity
- Method of Application
- Thickness of Coating

Temp.	Touch Dry	Hard Dry	Overcoating Interval with recommended top coats
+15°C	2 hrs	12 hrs	12 hrs
+25°C	1 hr	6 hrs	6 hrs
+40°C	1 hr	4 hrs	4 hrs

AUDAX fully complies with the requirements of EN ISO 9001 standard. This certification is one more proof for Renitherm®'s quality, reliability and safety.



Application of topseal

Once DFT's have been achieved as specified, Renitherm® TC Topseal (2 x 50 µm) can be applied. Make sure that Renitherm® EP 809 is completely cured before applying Topseal.

Storage

Renitherm® EP 809 should be stored indoors between +5 °C and +30 °C. Do not store below +5 °C. At temperatures above 25 °C the shelf life will be reduced. Shelf life normally is 12 months in originally sealed containers

Kit Size

Renitherm® EP 809 comes in standard kit sizes of 22 kg (Part A) and 20 kg (Part B). For availability of other kit sizes contact AUDAX.



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