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uksales@newguardcoatings.com



+44 1937 586311

Global Head Office: New Guard Coatings Ltd, Sandbeck Way, Wetherby, Leeds, LS22 7DN



Ace Coatings South



Steelmaster 120SB

Product description

This is a one component solvent based acrylic thin film intumescent coating. Independently approved for fire protection of structural steel exposed to cellulosic fire. Can be used as mid coat or finish coat in atmospheric environments. Suitable on approved primers on carbon steel substrates.

Typical use

Specially designed as passive fire protection for steel constructions. Suitable for structural steel exposed to external environments up to corrosivity category C4 (ISO 12944-2), with a compatible topcoat.

Approvals and certificates

BS 476 part 20/21

Additional certificates and approvals may be available on request.

Colours

white

Product data

Property	Test/Standard	Description
Flash point	ISO 3679 Method 1	25 °C
Density	calculated	1,35 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested)	323 g/l
VOC-EU	IED (2010/75/EU) (calculated)	351 g/l
VOC-China	GB/T 23985-2009 (ISO 11890-1) (tested)	348 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Solids by volume: 72 ± 3 %

Volume solids measured according to ISO 3233 and ASFP-BCF Guidance Method

Film thickness per coat

Typical recommended specification range

Dry film thickness	200 - 720 µm
Wet film thickness	280 - 1000 µm

All steel sections must be coated with correct film thickness to achieve the required fire rating. Please refer to the current loading tables. For further advice please contact your local Jotun office.

Note: The film thickness is only achievable by airless spray application in one coat.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Refer to the Application Guide (AG) for additional information.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)

Application

Application methods

The product can be applied by

Spray: Use airless spray.

Brush: Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Product mixing ratio (by volume)

Single pack

Thinner/Cleaning solvent

Do not add thinner. The product is ready to use and should not be thinned.

Cleaning solvent: Jotun Thinner No. 7

Guiding data for airless spray

Nozzle tip (inch/1000): 19-23

Pressure at nozzle (minimum): 200 bar/2900 psi

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	2 h	1 h	30 min	20 min
Dry to handle	48 h	24 h	16 h	8 h
Dry to over coat, minimum	24 h	16 h	8 h	6 h

All drying times have been measured at a wet film thickness of 1000 µm.

Topcoating: The minimum overcoating interval of this product with approved topcoats is 48 hours. Prior to application of topcoat, the applicator must ensure that the specified dry film thickness has been achieved and the system is dried to handle.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Dry to handle: Minimum time before the coated objects can be handled without physical damage.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

As per approved primer/topcoat list.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Steelmaster 120SB	20	20

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

Steelmaster 120SB	18 month(s)
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In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.