Technical Data
Pioner Topcoat

Product description
Pioner Topcoat is an acrylic resin based topcoat. Pioner Topcoat bases are intermediates and need to be processed before use.

Recommended use
Finishing coat for protection of steel and concrete in a variety of climatic conditions, exterior and interior. Water resistant and unsaponifiable. Quick drying and may be used at low temperatures. This product can be used as topcoat on top of Jotun's Steelmaster range of intumescent coatings.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	40	60	50
Film thickness, wet (µm)	120	180	150
Theoretical spreading rate (m²/l)	8,5	5,7	6,8

Approvals
APAS approved to specification 2903.

Physical properties

Colour	According to colour card and Multicolor tinting system (MCI)
Solids (vol %)*	34 ± 2
Flash point	37ºC ± 2 (Setaflash)
VOC	560 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Good
Water resistance	Very good
Abrasion resistance	Good
Solvent resistance	Limited
Chemical resistance	Good
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Coated surfaces
Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information.

Other surfaces
The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 3ºC above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure correct drying.

Application methods

Spray	Use airless spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	Single pack.
Thinner/Cleaner	Jotun Thinner No. 7
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm², 2100 psi)
Nozzle tip	0.46-0.66 mm (0.018-0.026")
Spray angle	40-80°
Filter	Check to ensure that filters are clean.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

* Good ventilation (Outdoor exposure or free circulation of air)
* Typical film thickness
* One coat on top of inert substrate

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	60 min	45 min	30 min	15 min
Through dry	10 h	9 h	7 h	4 h
Dry to recoat, minimum	5 h	4 h	2 h	1,5 h

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Vinyguard Silvergrey 88	2 x 80 µm	(Dry Film Thickness)
Pioner Topcoat	**1 x 50 µm**	**(Dry Film Thickness)**

Note: To obtain full coverage an extra coat may be necessary, especially for signal colours in red, orange and yellow.

If for special reasons aged Pioner Topcoat is overcoated with polyurethanes, note that the system will appear weak for normally 2-3 days after application. Be careful to avoid stress to the film during the time it takes for Pioner Topcoat to recover its mechanical and adhesive strength.

Note: Thick layers are the weakest points in old Pioner Topcoat systems. The recovery time from the effect of solvents used in Polyurethanes will increase. For high DFT areas, recommended practice is to first do test application.
Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

Handling

Handle with care. Stir well before use.

Packing size

5 litre container or 20 litre container

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

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