Product Data Sheet (TDS)

FastCoat Pro Traffic Coat

Hand Applied flexible polyaspartic topcoat for waterproofing membranes.

Description

FastCoat Traffic Coat is a 2-component, slow reactivity polyaspartic, that unlike usual polyurea systems, it can be mixed and manually applied due to its moderate reaction speed while retaining a fast curing profile once applied. It is delivered colourless. Good chemical resistance. Designed as a protective aliphatic topcoat for waterproofing membranes.

Applications

UV protection of waterproofing membranes, FastCoat Pro Traffic Coat is either cold or hot applied. Resistant to motor and pedestrian traffic.

Advantages

- Suitable for aliphatic protective topcoat for aromatic PU, polyurea waterproofing membranes.
- Fast curing
- Good adhesion properties
- High hardness and resistance achieved with a single application.
- Excellent gloss and colour retention.
- Aliphatic polyisocyanate basis. No discolouration.
- Good weathering resistance.

Technical Data

Information on the product before application.

	Component A	**Component B**
Chemical Description	Polyamines Solution	Solvent less Aliphatic polyisocyanate
Physical State	Liquid	Liquid
Packaging	Metal Container Colourless: 2.95kg 11.00kg **Pigmented** 3.85kg 11.6kg	Metal Container Colourless: 1.05kg 4.0kg **Pigmented** 1.15kg 3.4kg
Non-volatile Content (%)	Colourless: 73 Pigmented: 68	100
Flash Point	35°c	>100°c
Colour	Colourless	Colourless

Density

Temp (°c)	Density (g/cm3)	Temp (°c)	Density (g/cm3)
25	1.0 (clear)	25	1.15
	1.05 (pigm)		

Viscosity

Colourless

Approximate Brookfield	Temp (°c)	Viscosity (mPa.s)	Temp (°c)	Viscosity (mPa.s)
	10	45	10	725
	25	25	25	450
	35	15	35	260

Pigmented

Temp (°c)	Viscosity (mPa.s)
10	50
25	35
35	20

A/B Mixing Ratio

Colourless	Pigmented
A=100, B=36 by weight	A=100, B=29 by weight
A=100, B=31.5 by volume	A=100, B=27.5 by volume

Pot Life

Conditions	Pot Life (mins)
22°c 40%hr	30

Storage

Kept at 10°c and 30°c

Use Before

12 months after manufacture date.

Information on the Final Product

Final State	Solid polyaspartic / polyurethane coating
Colour	Colourless
Density	1.07 g/cm3 (colourless) 1.15 g/cm3 (pigmented)
Hardness (shore)	55D
Mechanical Properties	Elongation at break: 150% Tensile strength: 22 MPa
UV Resistance	Colour stable under sunlight
Chemical Resistance	Surface contact, 24h room temperature (5 = best, 0 = worst)

Chemical	**Result**
Water	5
Isopropyl alcohol	3
Xylene	1
Ammonia 3%	5
Sodium hydroxide 50%	5
Acetic acid 10%	5
Acetic acid 20%	4
Sulphuric acid 50%	3
Hydrochloric acid 10%	5
Hydrochloric acid 20%	3
Bleach	5
Sodium hypochlorite 15%	5
Hydrogen peroxide 33%	0

Petrol	2
Diesel	4

Support Requirements

Support must have enough mechanical strength, free from any vapour or water pressure. Support must also be clean, dry and free from poorly-adhesive areas. Recommended support temperatures: 10°c to 25°c.

Environmental Conditions

Recommended air temperature: 10°c to 30°c

Recommended humidity: 40% to 80%

Max surface temperature: 40°c

Support Preparation

On recently applied waterproofing membrane:

For better adhesion apply FastCoat Pro Traffic Coat shortly (30 mins) after application of the membrane.

Older membranes:

Gentle sanding and cleaning with FastCoat Pro Basecoat Thinners, then use of FastCoat Pro Dry Porous Flex Primer is advised.

Mixing

Open component A container. Stir using a low-speed stirrer preventing an excessive air bubbling, until dispersion of fillers. Pour component B in it and stir gently for 2 minutes. Transfer the mixture to a bigger container and check there is no unmixed product left.

Application

Apply by roller. Airless equipment is not recommended due to safety reasons. Reaction rate increases with the size of the mixtures; therefore, it is advised not to mix more amount of product that can be easily applied in a 15-minute period. Otherwise, application could be difficult, or the final appearance could be affected.

Standard spec for FastCoat Pro Traffic Coat would be:

200g per m^2 Traffic Coat

3kg per m^2 of Emery Aggregate

200g per m^2 Traffic Coat

Recommended Quantities

FastCoat Pro Traffic Coat can be applied in a wide thickness range, recommended a minimum of 1m wide for walkways.

Apply 200 – 500 microns when dry. (200 to 600g per m² wet film)

Curing Times

Curing times depends strongly on the weather conditions. Curing speed will increase with temperature and humidity. The following table gives you approximate values for 200g per m² applications. Thicker coats will give longer curing times.

Conditions	Touch to dry (h)	Total (h)
22°c, 40% rh	1.5	3
8°c, 50% rh	2.5	5

Recoating

Only one coat is usually needed

Return to Service

Under most conditions a light traffic is permitted about 2 hours after it is dry to touch. A normal foot traffic is recommended only the follow day.

Tool Cleaning

Component A and B can be cleaned with FastCoat Pro Basecoat Thinner. Cured product cannot be dissolved, unless special stripping products are used. Due to its fast curing rate, A & B mixture staining must be cleaned as soon as possible.

Cleaning and Maintenance

A daily water scrubbing is allowed. Solvents may seriously damage the surface

FAQ

Is the spreading of quartz sand allowed	Yes. The pot life gives enough time for the application of anti-skid additives (Emery aggregate) between two coats. Please refer to LRS advise for further information on the application.
Can it be pigmented	Please refer to LRS advice for colour options and procedures

Safety

FastCoat Pro Traffic Coat contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a general rule, suitable ventilation must be ensured, and any skin contact avoided. This product is intended to be used only for the uses and in the way here described. Spray application methods are not recommended due to health and safety reasons. This product is to be used only by industrial or professional users.

Environmental Precautions

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager.

Legal Notes

The information, and in particular, the recommendations relating to the application and the end use of FastCoat Pro Traffic Coat, are given in good faith based on LRS current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with LRS recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no guarantee in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from ant other advice offered. The user of the product must test the product's suitability for the intended application and purpose. LRS reserves the right to change the properties of its products. The proprietary rights of the third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.