



FAST:coat – Seamless Waterproofing

A one component liquid waterproofing composition, which after polymerisation produces an elastomeric, cold applied polyurethane membrane. The membrane cures in a continuous and elastic form, as a totally adhered layer.

This waterproofing layer guarantees total water-tightness and withstands building movements. Its fast-curing rate allows its use as a base coat, reinforcing layer or topcoat, especially in low temperature applications.

Application

- Low pitch & flat roof areas with light pedestrian traffic.
- Wet rooms, kitchens etc.
- Flooring with light pedestrian traffic.
- Water channels and ponds.

Advantages

Elastic and seamless coating, weather resistant and excellent bonding. Non water emulsifiable. Permanent water contact is allowed. No reinforcement usually required except at critical points or identified cracks and joints.

Technical Data

Chemical Description	Solvent borne single-component aromatic polyurethane		
Packaging	Metal cans: 25 kg		
Physical State	Liquid - Paste		
Non-volatile content	81%		
Flash Point	45°C (ASTM D 93)		
Available Colours	Grey RAL 7001/7011 / Black. Other colours on request.		
Density	1.3 g/cm ³ (20°)		
Viscosity (Brookfield)	Approximate values		
	Temperature (°C)	rpm	Viscosity (mPas)
	20	100	10000
	20	5	20000
	35	100	5000
	35	5	10000



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VOC (g/l i%)	VOC Content: 245 g/l																																									
VOC Class	Product subclass: i II solvent based single-component performance products. Limit from 01/01/2010: 500g/l																																									
Pot Life	Conditions Pot Life 1kg 20°C, 50% rh 4-6 h																																									
Storage	Keep at a temperature below 30°C, away from ignition sources and moisture. Keep in original sealed container. Product may be used up to 6 months after manufacture, providing the original seal is intact.																																									
Final Appearance	Solid elastomeric membrane																																									
Colour	According to specific pigmentation																																									
Hardness (Shore)	65-70-A (ISO 868)																																									
Mechanical Properties	Elongation (%) Stress (mPa)																																									
	100 2.0																																									
	200 2.8																																									
	300 3.0																																									
	400 3.4																																									
Maximum elongation	421%																																									
Tensile stress	3.4 mPa (EN-ISO 527-3)																																									
Tear Strength	7.1 N/mm																																									
Water Vapour Permeability	$\mu > 1000$ (EN 1931) 20 g/m ² day																																									
Chemical Resistance	Permanent contact (0 = worst, 5 = best)																																									
	<table border="0"> <thead> <tr> <th>Chemical</th> <th>Test conditions</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>24 h, 25°C</td> <td>5</td> </tr> <tr> <td>Salt water</td> <td>24 h, 90°C</td> <td>5</td> </tr> <tr> <td rowspan="4">Hydrochloric acid solutions</td> <td>200 g/l, 24 h 25°C</td> <td>4</td> </tr> <tr> <td>200 g/l, 2 h, 80°C</td> <td>4</td> </tr> <tr> <td>3 g/l, 24 h, 25°C</td> <td>5</td> </tr> <tr> <td>3 g/l, 24 h, 80°C</td> <td>4</td> </tr> <tr> <td rowspan="2">Sodium hydroxide</td> <td>40g/l, 24 h, 25°C</td> <td>5</td> </tr> <tr> <td>24 h, 25°C</td> <td>5</td> </tr> <tr> <td>Ammonia (3%)</td> <td>24 h, 25°C</td> <td>5</td> </tr> <tr> <td>Acetone</td> <td>24 h, 25°C</td> <td>1</td> </tr> <tr> <td>Ethyl acetate</td> <td>24 h, 25°C</td> <td>3</td> </tr> <tr> <td>Xylene</td> <td>25 h, 25°C</td> <td>5</td> </tr> <tr> <td>Motor oil</td> <td>24 h, 25°C</td> <td>5</td> </tr> <tr> <td>Brake fluid</td> <td>24 h, 25°C</td> <td>2</td> </tr> </tbody> </table>	Chemical	Test conditions	Result	Water	24 h, 25°C	5	Salt water	24 h, 90°C	5	Hydrochloric acid solutions	200 g/l, 24 h 25°C	4	200 g/l, 2 h, 80°C	4	3 g/l, 24 h, 25°C	5	3 g/l, 24 h, 80°C	4	Sodium hydroxide	40g/l, 24 h, 25°C	5	24 h, 25°C	5	Ammonia (3%)	24 h, 25°C	5	Acetone	24 h, 25°C	1	Ethyl acetate	24 h, 25°C	3	Xylene	25 h, 25°C	5	Motor oil	24 h, 25°C	5	Brake fluid	24 h, 25°C	2
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Abrasion	14.3mg (Taber, 1000 cycles, CS-10, UNE 48250)																																									



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Adhesion	Surface	Force (MPa)
	Concrete	2.0
	Ceramics	2.6
	Polyurethane foam	1.4
UV Resistance	Products includes anti UV additives. A colour change is expected due to its aromatic polyurethane composition. This discolouration does not affect its properties.	
Thermal Resistance	Stable up to 80°C	
Fire Resistance	B roof = t1 (External fire exposure test)	

Application Information

Support Requirements

In order to achieve a good penetration and bonding, support must be:

1. Flat and levelled (product is self-levelling).
2. Compact and cohesive (pull off test must show a minimum resistance of 1.5 N/mm²).
3. Even and regular surface.
4. Free from cracks and fissures. If any, they must be previously repaired and locally reinforced.
5. Clean and dry, free from dust, loose particles, oils, organic residues or laitance.

A thixotropic additive is available to increase viscosity for vertical applications. An accelerator additive is available to reduce the curing time.

Recommended Environmental Conditions

Support temperature should be between 0°C and 30°. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer's advice. Air temperature must be between 5°C and 30°C. High temperature and moisture conditions can reduce the pot life and lead to bubble formation under the membrane surface. The applied material is rain resistant after 1 hour although not affected, the surface may be slightly damaged i.e. pock marked.

Mixing and Application Guidelines

Mechanically stir and homogenise the product before use. Some of the contents settle during storage and must be re-dispersed. Allow several minutes to release air bubbles. Stirring should be done at low speed. Apply by roller, brush, spreader or airless equipment. It is useful to apply in 2 different coloured coats, at 1.5-2 kg/m². It is strongly recommended to use the entire contents of the container. Non used product even kept in a closed container, will develop a thick cured skin on the surface and will ultimately all cure solid.



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Curing Time

Curing time is dependent on the environmental conditions. Curing rate increases as temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 1mm coat.

Temperature (°C)	Relative humidity (%)	Dry to touch (h)
7	50	4
27	60	1

Return to Service

At usual conditions (25°C, 50%) the membrane achieves up to 90% of its final properties in 3 to 4 days. Final hardness is not achieved until 10 or 15 days. It is preferable to wait this time before permanent contact with water is allowed. Reapplication is possible as soon as the curing state of the first coat allows walking and working on it, and it should be done before 48 hours.

Tool Cleaning

Clean tools with solvent, acetone and alcohols. Once hardened, it cannot be dissolved. It is recommended to clean equipment as soon as possible.

Safety

Product 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 all ignition sources must be avoided. This product is intended to be used only for the uses and in the way here described. 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 authorised waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.



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This data sheet supersedes previous versions. Rev 31.10.14



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