



TDS ROBEX AQUALINER WATERPROOF LINING SYSTEM

PRODUCT DATA SHEET

Description

Aqualiner Waterproof Lining System, is polymer urethane, two component, 100% solids, and spray applied liquid coating that has been formulated to give good physical properties and ease of application.

The mixed components set rapidly to form a glossy, tough, durable, waterproof elastomeric coating with excellent resistance to abrasion and a wide range of chemicals without any additional heat cure.

Aqualiner Waterproofing Lining System can be spray applied to a wide variety of substrates to provide a tough seamless coating any desired thickness from 0.5mm upwards.

Processing

Aqualiner Waterproofing Lining System should be stored at between 15°C and 25°C prior to spray. It has been formulated to be processed between 65°C and 75°C using two component meter/mix/spray equipment at a 1:1 volume mix ratio. Machine and hose temperatures should be set to between 65°C and 75°C. Spraying can be airless or air assisted.

Of particular importance is the mix ratio and tolerance of $\pm 2\%$ or better must be maintained if the high design properties are to be obtained.

Substrates to be coated should be clean, dry and free from contamination and at a temperature of at least 10°C. Some substrates such as concrete and steel will require the use of a primer before the Aqualiner Waterproofing Lining System is applied.

Aqualiner Waterproofing Lining System has been specially developed for spray applications and has a very rapid gel time. A 1.5mm thick film spray applied to a metal plate at 20°C gives the following properties:

Gel Time 15 seconds
Touch Dry 30 seconds
Cure 80% of maximum tensile strength is attained within 24 hours at 20°C.

The system can be sprayed onto vertical substrates

without dripping or sagging occurring. Overcoats can be applied as soon as gelation allows, however, overcoating after 5 hours or longer requires an adhesion promoter.

TECHNICAL INFORMATION

Technical characteristics

Hardness(° Shore A)	80 - 85	
100% Modulus (MPa)	5.0	ASTM D412
300% Modulus (MPa)	9.0	ASTM D412
Tensile Strength (MPa)	10.0 - 14.0	ASTM D412
Elongation at Break (%)	350 - 400	ASTM D412
Tear Strength (kN/m)	35.0 - 40.0	ATSM D624
Abrasion Resistance (mm ³ loss)	150	DIN 53516
Taber Wear Index 1000 cycles. 1000g wt, H22 wheel	125	ASTM D 4060-95
Specific gravity @ 25°C	0.8- 1.0	

Chemical Resistance

5% Acetic Acid	A
5% Hydrochloric Acid	A
5% Sulphuric Acid	A
5% Nitric Acid	B
20% Phosphoric Acid	B
15% Sodium Chloride	A
10% Sodium Chloride	A
MEK	C
Toluene	C
Ethylene Glycol	B
Sea Water	A
Motor Oil	A

A- Good Resistance
B- Moderate/Poor Resistance
C- Not Recommended

Please note the above tables are intended as a guide only. For information on specific applications Robex S.A should be contacted.

TECHNICAL SERVICE

Contact the Technical Department at Robex SA (Pty) Ltd.

GUARANTEE

Robex SA (Pty) Ltd warrant all goods to be free from defects and will replace materials proven to be defective but make no warranty as to appearance of colour. The information and recommendations herein are believed by Robex SA (Pty) Ltd to be accurate and reliable.