



TBS COMPONENT DATA SHEET

TECHNICAL BARRIER SYSTEMS INC.



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SEALMASTER 40%

SOLVENT BASED SILANE PENETRATING SEALER

Description:

A penetrating, clear, and breathable water repellent for use on exterior above-grade concrete, brick and concrete masonry units, and some natural stones plus Parking Structures and Precast Concrete. It penetrates the surface and bonds chemically to the substrate, resulting in permanent attachment of the water repellent molecule. Sealmaster 40% will not discolor or change the surface appearance in anyway.

Typical Uses

- Use on concrete to protect the reinforcing steel from corrosion.
- Waterproof brick masonry
- Reduce scaling on concrete pavement
- Reduce the effects of mildew, efflorescence and stains on vertical concrete and masonry buildings
- Provide substrates with water repellency

Features:

- Water repellent
- Excellent for cool weather applications
- Breathable
- Will not alter substrate appearance
- Solvent based
- Helps reduce efflorescence, atmospheric staining and mildew
- Penetrates deeply into the substrate
- Helps to protect from damage caused by chloride intrusion
- Approved by Alberta Transportation Type 1B – 189 mL/M²

- VOC Concentration as applied (less water and exempt solvents) : <600 g/l

Limitations

- Do not apply when temperatures expected to fall below 20°F (-7°C) or above 100°F (35°C)
- Do not apply if rain is expected within 2 hours of application, or if high winds prevent proper application.
- If it rains prior to application, the surface should be allowed to dry at least 24 hours.
- Will not inhibit water penetration through unsound or cracked surfaces, or surfaces with defective flashing, caulking or structural waterproofing problems
- Caution should be taken with specialty coated glass or plastic windows. Check compatibility before application.

Application

- Apply liberally using brush, roller or low pressure spray
- Coverage rate will vary depending on the porosity of the substrate.
- For optimum results 4-6 m²/liter is recommended. (189 sq ft/gal)
- Do not alter or dilute material.
- The substrate temperature must be at least 20°F to 95°F (-7°C to 35°C) during application.
- The concrete substrate must be clean, sound, dry and free from all contaminants detrimental to bond.

- Concrete substrate must have laitance removed, preferably by a shot blast method.
- Store material in a dry area 50°F to 80°F (10°C to 27°C).

Physical Properties

Composition	Alkylalkoxysilane in alcohol
Active Alkylalkoxysilane content	> 40% by weight

Average Depth of Sealer Penetration

Sealant Name	Mean Depth of Sealer Penetration (mm)	
	Air-Entrained Mix	Non Air-Entrained Mix
SealMaster 40%	0.6	0.5

Average Water Absorption and Vapour Transmission for air entrained and non-air entrained concrete slabs

Sealant name	Water Absorption % (21 days immersion)				Water Vapour Transmission % (21 days drying)	
	Air-Entrained		Non-Air-Entrained		Air-Entrained	Non-Air-Entrained
	Value%	*Reduction	Value %	*Reduction %		
Control	1.48	-	1.35	-	93.3	94.4
Seal Master 40%	0.46	69	0.48	64	139.9	141.3

15% NaCl Solution Absorption and Vapour Transmission

Sealant Name	15% NaCl Solution Absorption % (21 days immersion)				15% NaCl Solution vapour Transmission% (21 days drying)	
	Air-Entrained		Non-Air Entrained		Value	d
	Value%	*Reduction%	Value%	*Reduction		
Control	1.46	-	1.13	-	75.6	83.0
Seal Master 40%	0.23	84	0.21	81	211.2	227.8

Total Chloride Ion Content

Sealant Name	Total Chloride Ion Content (%by mass)			
	Air-Entrained Mix		Non Air-Entrained Mix	
	Value	%Red'n*	Value	%Red'n*
Control	0.3438	-	0.3132	-
Seal Master 40%	0.0499	86	0.0619	80

Packaging:

Available in 5-gallon pails, 55-gallon drums and 220-gallon, non-returnable totes

Safety Precautions:

Please refer to product MSDS sheet