

1-Component, Flexible Sealer For Wet Room Areas

- ✓ Shower pan liner
- ✓ Meets or exceeds ANSI 118.10
- ✓ Solvent & VOC free - ready to use
- ✓ Inhibits the growth of mold & mildew
- ✓ Fast setting - tiling after 6 hrs
- ✓ Excellent crack bridging properties
- ✓ Waterproof & "breathable", allows release of trapped moisture
- ✓ Can be applied over 5 day old concrete
- ✓ Applied by brush, roller or trowel

Product Description

AQUAFIN®-FLEX-S is a liquid applied, ready to use, synthetic rubber based polymer dispersion which dries to form a thin, seamless, load bearing elastomeric waterproof membrane. It is fast drying, vapor open ("breathable"), allowing tiling the same day.

Aquafin recommends that all construction joints, horizontal wall/floor joints, pipe inlets and outlets are sealed with ASO-JOINT-TAPE-2000. It is attached to the substrate with one prime coat FLEX-S.

Typical Applications

FLEX-S is used to waterproof:

- ◆ wet rooms such as shower areas and shower pans, bathrooms, kitchens and sanitary areas in commercial buildings and residential homes.
- ◆ balconies and walkways underneath tiles in temperate climate zones. Use AQUAFIN-2K/M for zones exposed to freeze/thaw cycles.
- ◆ fast track jobs where time is of essence and areas not requiring intricate waterproofing details.

Substrates:

- ◆ Concrete, cement backerboards, WonderBoard®
- ◆ Pre-primed dusty substrates and gypsum drywall.

Limitations:

- ◆ Not suitable for continuous water immersion.
- ◆ Not a wearing surface, must be covered with tile.
- ◆ Not a sealer for saw-cut, control, construction, cold or expansion joints.
- ◆ Not UV resistant.

Substrate Preparation

The substrate must be clean, sound, dry and free from grease, oil, curing compounds, laitance and any loose particles to ensure good adhesion. Surfaces should be smooth and open pored (like fine sand paper - CSP3) with undulations leveled off where possible. Concrete and cementitious substrates should be at least 5 days old.

Application

Do NOT thin! Do not apply FLEX-S at temperatures below 40°F (5°C) or to a frozen substrate.

Priming:

Where necessary to seal off dust and cohesiveness to improve the substrate, use an Aquafin approved primer.

Corners, horizontal and vertical joints:

Install JOINT SEALING TAPE-2000 corner piece into all corners exposed to possible water loads.

Pipe penetrations and flanges:

Install SEALING GASKET-18/18 as per data sheet.

FLEX-S may be applied by brush, roller, or notched trowel.

Consumption:

45 sq.ft/gal (1.2 kg/m²) at 32 mils [1/32"] (0.8 mm) DFT (includes 2 coats).

For single coat application use a 1/8" to 1/6" (3 - 4 mm) notch trowel to evenly spread FLEX-S, followed by smoothing with a non-shed roller.

Two coats are required for application with a brush or non-shed roller. Apply the second coat after a curing period of 6 hrs at 68° F (20° C).

TILING:

Tiling can commence after 6 hrs at 68° F (20° C) by using a polymer modified thin set tile adhesive.

CLEAN UP:

Clean tools and equipment with water immediately after use. Cured material can only be removed mechanically.

STORAGE & SHELF LIFE:

Shelf life in unopened, undamaged packaging is approx. 12 months. Store in a dry, frost-free place.

LIMITATIONS:

- ◆ Do not use as an adhesive to install ceramic tile or natural stone

Physical & Technical Data

Aggregate State:	Liquid
Colors:	Amber
Density:	10.91 lb/gal (1.31 kg/L) *
pH-value:	8 *
VOC Content:	0 g/L
Pot life at 60% RH:	60 minutes at 68° F (20° C) 45 minutes at 104° F (40° C)
Foot traffic:	6 hrs at 68° F (20° C) 4 hrs at 104° F (40° C)
Recoat / Tiling after:	6 hrs at 68° F (20° C) 4 hrs at 104° F (40° C)
Substrate & Application Temperature:	Min.: 40° F (5° C) Max.: 108° F (42° C)
Service Temperature:	Min.: 14° F (-10° C) Max.: 113° F (+45° C)
Adhesion:	- dry substrate 80 psi (0.57 MPa) - wet substrate 75 psi (0.52 MPa) - ageing 109 psi (0.75 MPa) - alkali resistance 106 psi (0.73 MPa) pH ≥12
Elongation:	250% (ASTM D-412-98a)
ANSI A118.10-1999: complies with all the requirements.	
Seam Strength: (ASTM-D 751)	38.2 lbs (17.4 kg) Requirement = 8 lbs
Breaking Strength: (ASTM-D 751)	664 psi (4.6 MPa) Requirement = 170 psi
Dimensional Stability: +158°F (ASTM-D 1204) -15°F	0.25% Change 0.00% Change Requirement = 0.7% max.
Waterproofness: (ASTM-D 4068-99)	2 ft./48 hrs water column Result: Pass
Shear Strength: (ASTM-C 482-96)	7 day 96 psi (0.67 MPa) 4 week 142 psi (0.98 MPa) 7 week 170 psi (1.18 MPa)
Water Immersion (ASTM-D 1084)	7 day 72 psi (0.50 MPa) 100 day Requirement = 50 psi
Fungus & Micro-Organism Resistance:	Pass
Flammability:	Passed (DIN 4102-1 (B2))
Permeability: (DIN 1048) at 32 mils (1/32") (0.8 mm) thickness	No measurable leakage up to 50 feet (15 m) head pressure (positive side).
*) at 68° F (20° C)	
All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

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