

## RepShield 40 W

### 40% Solids, Water Based, VOC Compliant Penetrating Silane Sealer

#### Description:

**RepShield 40 W** is an ultra-high performance penetrating sealer designed to protect all concrete and masonry surfaces from the damaging effects of water intrusion. **RepShield 40 W** is a 40% solids, water-based, Silane sealer. This clear, penetrating, breathable water repellent is designed for use on interior and exterior above-grade concrete or masonry surfaces. **RepShield 40 W** penetrates the surface and bonds directly with the substrate, which results in a surface that is highly resistant to both moisture and salt. **RepShield 40 W** helps protect against the corrosive effects of de-icing salts, moisture, and weathering to prevent spalling and deterioration of concrete structures.

#### Uses:

- Concrete & Masonry Surfaces
- Parking Structures
- Bridges & Ramps
- Pavements & Marine Platforms
- Unglazed Roof & Floor Tiles
- Exposed Aggregate Surfaces
- Concrete Pavers & Retaining Walls
- Many Wood Surfaces

#### Features:

- Provides excellent chloride screen
- Excellent water repellency
- Fast drying in cooler temperature
- Reduces the effects of freeze-thaw cycling
- New as well as old concrete surfaces
- Dries tack-free and skid resistant
- Colorless and non-yellowing
- Resists Mold, Rust Stains, Efflorescence
- Resists Acid Rain & other Chemicals
- Protects Against De-icing & Sea Salts
- Very Cost Effective & Outlasts Others

#### Technical:

Intended Meets and surpasses Fed. Spec SS-W-110 b (GSA-FSS) Performance

#### Coverage Guide:

The average rate is determined by surface porosity:

Porous surfaces:	125-175 ft <sup>2</sup> /gal
Broom finish:	200-300 ft <sup>2</sup> /gal
Smooth concrete:	250-350 ft <sup>2</sup> /gal

#### Preparation:

**OLD CONCRETE & MASONRY-** Remove any previously applied sealers, dust, dirt, tar, oil, etc. with pressure wash and **TuffTex RepGreen Citrus Cleaner** or use other appropriate measures to properly prepare the substrate. Membranes of any kind must be removed. Substrates must be absorptive to allow penetration of the **RepShield 40 W**.

**NEW CONCRETE-** Surface should be well cured (28-day minimum) using water, wet burlap, polyethylene curing paper, or dissipating resin-based curing compound. Surface must be free of all curing residue, dust, debris, oil and other contaminants. Substrates must be absorptive to allow penetration of the **RepShield 40**. All joint sealant, caulks and patching should be in place before applying.

When concrete etching is required prior to application on new or old concrete, use **PrepEtch**. For specific application instructions or guide specifications, contact **TuffTex** Technical Department at 512-617-7334.

#### Placement:

**Horizontal Surfaces:** Flood surfaces with **RepShield 40 W** using a low-pressure sprayer (airless sprayer 10 to 20 psi), roller, brush or broom. Broom or squeegee around for even distribution. Let the surface absorb the **RepShield 40 W**.

An extremely porous surface may require two coats if applied on a "wet on wet" procedure. Distribute any puddles or free-standing material.

**Vertical Surfaces:** Apply with spray or roller at the rates indicated in the coverage guide.

**Curing/Drying Time:**

2-4 hours at 70° F (21° C) and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time.

**Clean Up:**

Tools and Equipment: Clean with water or TMI **RepGreen Citrus Cleaner**.

**Packaging:**

275-gallon (1041 liter) totes  
55-gallon (208 liter) drums  
5-gallon (19 liter) pails

**Color:**

Milky white and dries clear.

**Storage:**

The material should be stored between 40°F – 95°F (4°C – 35°C) in a cool, dry area away from direct sunlight.

**Shelf Life:**

The shelf life of properly stored, unopened containers is 24 months (two years). An excessive temperature differential and/or high humidity can shorten the shelf life expectancy.

**Caution:**

READ SDS PRIOR TO USING PRODUCT.

**Combustible liquid.** Keep Away from Open Flame. Not suitable for asphaltic surfaces. Protect glass, metal and other non-masonry surfaces from over spray. Do not use if air, product or surface temperatures are below 20° F or above 90° F. Do not use over a curing membrane. Initial reaction will be in 16 to 24 hours. Treated areas may be returned to service once the product has penetrated and the surface is dry. Do not over apply. Substrates should be saturated with the material, but puddling should be avoided. Do not apply if precipitation is expected within four hours, or if rain has preceded the application in the past 24 hours. **RepShield 40** is not formulated for below grade waterproofing. Not effective for some stone

surfaces. Over application may cause a slight darkening of the surface. Do not apply in high winds. Do not dilute. Wear protective gloves and goggles. Avoid prolonged skin contact. Allow NO contact with foodstuffs. **DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!**

Dispose of waste material in accordance with federal, state and local requirements.

**Warranty:**

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

<b>Physicals:</b>	
Composition	Alkylalkoxysilane Silane
Active Silane Content	40% min. by wt.
Chloride Screened	97%
Chloride Absorbed-% Reduction	99%
VOC	< 20 g/l
Content (EPA Method 24)	Less than 250 grams/liter
Scaling Resistance Rating	O- None
Weight / Gal	6.88 lbs./gal
Repellency Factor	98.6%
ASTM C-642, Water Absorption	0.364%
ASTM C-672, Scaling Resistance	No Scaling 125 cycles
Flash Point (ASTM D3278-82)	200°F
Solids/Active % /Wt.	40
Specific Gravity, 77° F	0.95
Density, lbs/gal	7.9
Color- Milky White	Dries Clear