



# wedi® S-DRY™ Seal

## Technical Data Sheet

**Two component cement based waterproofing and crack isolation for use with wedi® S-DRY™ products in wet area applications.**

- Developed for waterproofing and bonding wedi® S-DRY™ shower system membrane overlaps, transitions, seam tape and connections to wedi® S-DRY™ bonding flange drains.
- Dries to a waterproof film that allows the still-fresh thinset under S-DRY™ sheet membranes to hydrate out.
- wedi® S-DRY™ shower installations are readily waterproofed and sufficiently cured to accept a flood test on the same day 6 hours after application of wedi® S-DRY™ Seal.
- Meets ANSI A118.10 (Waterproofing) and ANSI A118.12 (Crack Isolation)
- Solvent and VOC free
- Offers crack isolation properties (up to 1/8 inch lateral movement)
- Can be used in general waterproofing applications over suitable substrates and prior to tiling.



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## Suitable Substrates

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- wedi Fundo®, wedi® Building Panels, wedi® S-DRY™
- Common building substrates (concrete that has cured for at least 28 days, CBU in accordance with manufacturer guidelines, etc.)<sup>\*1</sup>
- Cement or Fiber Cement backer boards, drywall or Magnesium Oxide panels.<sup>\*1, \*2</sup>

<sup>\*1</sup> Some backer board/wall panel or floor substrates might require priming.

<sup>\*2</sup> Always verify specific substrates and backerboards are prepared for and intended to adhere with thinset tile adhesive mortars.

## Suitable Environments

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- Installation over dry or damp (but not wet) substrates
- Installation in interior applications built for dry or wet use (but not submerged)

## Prepare the project site

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When installing wedi® S-DRY™ SEAL and during the product's full curing time, please ensure ambient and substrate temperatures are maintained at a minimum of 52°F or 11°C.

## Prepare the Substrate

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Make sure substrate is sound, solid, even, true, plumb and level. Be sure all installation areas are clean and free of dirt, debris, particles, loose materials, grease, paint, oils, wax, other residues and potential bond breakers.

After preparing the substrate for installation, use a vacuum and damp sponge to remove dust.

Do not install product over movement joints and consider placement of expansion joint details as per TCNA detail EJ171.

In S-DRY™ shower system and membrane installations, make sure to remove any thinset residue on the membrane surface using a damp sponge.

## How to Mix and Apply wedi® S-DRY™

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### Recommended Tools

For best results, mix with a Ring Mixing Paddle and a high speed drill.

### Safety and OSHA Compliance

Handle each bag with care, emptying it in a manner that avoids creating a plume of dust. While mixing, use a standard "gutter hook" vacuum attachment in combination with a heavy-duty, bucket-style vacuum (Shop-Vac or similar) and HEPA dust extraction vacuum system.

## Mixing the two components (Liquid and Powder)

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Pour Liquid into the mixing bucket followed by the Powder. Do not add any water or other additives. Mix thoroughly for 2-3 minutes and re-stir just prior to application to ensure creamy and lump free consistency.

To mix a full batch of wedi® S-DRY™ SEAL to the desired spreadable consistency, mix one part of liquid with one part of powder by volume. A full batch size is 20 fluid oz. of each the powder and the liquid which ensures the material can be used up during its pot life.

Apply the S-DRY™ SEAL to the S-DRY™ membrane surface using a 3 inch wide 3/16" x 5/32" V notch putty knife. Apply wide enough to provide a full setting bed for the S-DRY™ seam tape or prefabricated corners. Comb through the application with channels pointing in the short direction so that once you are pressing the seam tape onto the treated area air can easily escape. Total thickness should be 1/32" (0.79 mm) minimum. Use a float and move it over the bonded seam tapes and work air out from underneath the seam tape or prefabricated corners. Ensure that the seam tape is adhered flat over the surface and with no wrinkles or air inclusions left.

## Tile Installation and Flood Testing

Tile can be installed over the wedi® S-DRY™ shower installation (sealed at seams with wedi® S-DRY™ Seal) 6-8 hours after membrane installation. Contact wedi before installing resin-backed or highly absorbent tile or moisture sensitive stone.

If Flood testing is required in a wedi S-DRY Shower System please allow 6 hours to pass after completing the wedi® S-DRY™ installation before beginning the flood test. Once the flood test is completed drain all water and tiling may commence.

## Application Data

All dry times are calculated at 70°F (21°C). Drying time is a function of jobsite temperature and humidity conditions. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

Coverage:	Approx. 45 ft. of sealing tape / seams in wedi® S-DRY™ assembly (or approx. a 36 x 60 in. shower with 3 walls + curb) with 80 liquid oz. wedi® S-DRY™ SEAL (mix 2 batches of each 16 oz Liquid plus 16 oz Powder, a mixing ratio of 1:1 by volume)
Pot life:	30-45 minutes, may need to refresh by mixing.
Drying time:	Appr. 30 minutes for tack free drying and 6 hours until exposure to water (e.g. through a flood test).
Flood test:	Begin 6 hours after the installation of S-DRY™ SEAL with S-DRY™ Tape in any S-DRY™ Shower installation.

### ANSI Test Results A118.10 (Waterproofing) and A118.2 (Crack Isolation)

Property	Test Method	ANSI Specification	Test Result
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs. / inch width	48 lbs. / inch width
Breaking Strength	A118.10 Section 4.3	> 170 psi (12 kg/cm <sup>2</sup> )	865 psi (61 kg/cm <sup>2</sup> )
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	0.00%
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass
<b>Shear Bond Strength to Cement Mortar</b>			
Shear Strength After Water Immersion (7 days)	A118.10 Section 5.4	> 50 psi (5 kg/cm <sup>2</sup> )	90 psi (6 kg/cm <sup>2</sup> )
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi (5 kg/cm <sup>2</sup> )	132psi (9 kg/cm <sup>2</sup> )
<b>System Crack Resistance</b>			
Standard performance (without mesh)	A118.12 Section 5.4	> 1/16 inch and < 1/8 inch	Pass
High performance (with mesh)	A118.12 Section 5.4	1/8 inch	Pass
Point load	A118.12 Section 5.2	> 1000 lbs	> 3,300 psi (232 kg/cm <sup>2</sup> )
Robinson Test	A118.12 Section 5.3	As specified	Extra heavy

## Notes

Intended for use by professional contractors who are trained in the application of this product and/or similar products.

Interior use only.

All tools should be cleaned with water immediately after use.

As always, wedi recommends the installation of test areas to confirm the suitability of the product for the intended use.

Never mix with cement or additives other than wedi approved products. Observe the basic rules of tile work. Do not install below 50°F (10°C) surface temperature.

Store at temperatures between 40 and 90°F (5 - 32°C). Do not freeze. Do not reuse container. Dispose of packaging and residue in accordance with federal, state and local waste disposal regulations. Do not flush material down drains.