



PRODUCT INFORMATION

screed 100 system

Trowelable underlayment, portland cement based leveler

SCREED 100 System is a self-curing, portland cement based, fine aggregate and liquid latex based floor leveling system designed for fills from feather-edge to a depth of 0" - 3/8" (0-10 mm). It is designed to be used over concrete or other portland cement based substrates. Produced under rigid control, formulated with high durability latex and cement, **SCREED 100 System** conforms to the highest quality standard.

TEXTURE:

Free-flowing white liquid component and a non-sanded gray powder consisting of cement organic and inorganic chemicals.

COLORS:

Gray

PACKAGING:

1 gallon liquid and 35 lb powder, 5 gallon liquid and 5-35 lb powder, 55 gallon liquid and 55-35 lb powder.

BASIC USE

> **SCREED 100 System** and **LATEX BOND ADMIX 150** liquid are for leveling concrete floors prior to the installation of resilient floor coverings, wood flooring, epoxy coatings, stained concrete, decorative texture finish, ceramic and stone tile.

AREA OF USE

SCREED 100 System is used on interior or exterior applications from a screed of featheredge thickness to 3/8" (0-10 mm) thickness. **SCREED 100 System** may be used as a wearing surface in areas which do not require high chemical resistance. Use to fill or correct tilted, wavy, uneven surface or provide transition of low area to meet to higher floor height or decorative coverings. Use it to resurface severely scarred, rough concrete or use to fill isolated low spots or ponding depression. Surfaces can be walked on overnight within 20-24 hours. For pours or screeds greater than 3/8" (> 10 mm) thick, a two-pour procedure must be followed. When cured, the finished underlayment will have similar properties to concrete.

BENEFITS

- > The underlayment can be left uncovered for a wearing surface.
- > The combined system's easy mixing procedure and ease of application insure time and money savings.
- > It provides a surface with high compressive strength that is water, acid and alkali resistant with a permanent vibration resistant bond.
- > Due to the special particle distribution, it allows featheredge without crumbling and can be used on interior or exterior installations.
- > When properly mixed, the underlayment will not shrink when setting.
- > **SCREED 100 System** resists breakdown due to dampness and cures to a semi-resilient but very tough surface which will not check, crack or break-up. Like all concrete products, strength increases significantly during the initial 28 days.

LIMITATIONS

- > **SCREED 100 System** must not be used over unsound surfaces,



INTERIOR FLOORS / WALLS



WEATHER RESISTANT

gypsum based surfaces, paints, particleboard, lauan plywood, plastics, old adhesive residue, vinyl products, waterproofing membranes, epoxy or urethane coverings.

- > All applications without surface priming of undiluted **LATEX BOND ADMIX 150** Liquid will void warranty.
- > Do not use over substrates subject to hydrostatic pressure.
- > This product is not affected by prolonged water contact but it does not form a water-proof barrier.

INSTALLATION: PREPARATORY WORK

All surfaces to receive **SCREED 100 System** must be clean, dry, structurally sound, rigid and non-flexing and conform to proper building codes. Remove all dust, efflorescence, loose particles, sealers, curing compounds, oils, surface hardeners, paint, waterproofing or crack isolation compounds, chemically treated surfaces, cut back adhesive, old adhesives, foreign matter and other anti-adherents from surface. Cleaning may be accomplished via mechanical sanding, scraping, chipping or shot blasting. Failure to remove these items causes bond loss and voids product warranty. Roughen smooth, slick, steel troweled concrete. Remove all foreign matter and/or roughen surface by mechanical scarified or shot-blasted to prepare surface. Test surface for bond cleanliness by applying multiple droplets of clean water to the bond surface and observe absorption. These water droplets should quickly absorb and darken the surface to indicate a clean and bondable surface. If water droplets remain beaded or unabsorbed or partially absorbed, then the surface is not ready for application and contaminate removal will be required. Smooth steel troweled concrete must be acid-etched using a 10% muriatic acid wash. It is important that the acid sludge be thoroughly neutralized (with baking soda or TSP) and flushed from floor. USE ONLY WITH **TEXRITE'S LATEX BOND ADMIX 150**.

CEMENTITIOUS SUBSTRATES

Concrete surface must be fully cured and free of excessive moisture. All surfaces must first be primed or brush-coated with undiluted **LATEX BOND ADMIX 150** Liquid. Evenly paint brush, paint roller or broom wet, undiluted **LATEX BOND ADMIX 150** Liquid to surface. On porous concrete or rough texture surfaces, two primer coats may be required. Allow liquid primer coat to dry clear with no wet spots or become tacky before applying **SCREED 100** underlayment system.

Reapply more primer if first application is allowed to dry past 12 hours. Allow primed coat to become “tacky”, then proceed with topping coat. Concrete floors must be sufficiently clean, cured and free of excessive moisture.

WOOD SURFACES

Installations over plywood are restricted to interior dry areas only. Prime the wood surface with undiluted LATEX BOND ADMIX 150 Liquid to surface. An approved plastic lath, painted or galvanized (corrosion resistant) metal lath must be nailed to plywood floors prior to installing **SCREED 100 System**. For patching or leveling wood surfaces, you may also use other Texrite’s products such as Screed Patch 125, Featherite 125 fs, Flowrite 250 or Flowrite 250 fs following the instructions on the applicable data sheet. This product is NOT recommended for use over strip wood flooring.

EXPANSION JOINTS

Expansion joints, contraction joints (saw cuts), construction joints (cold joints) and structural cracks shall never be bridged over with **SCREED 100 System**. They should continue through the underlayment and the subsequent flooring material. Install expansion joints through the **SCREED 100 System** where it abuts restraining surfaces such as perimeter walls, dissimilar floors, curbs, columns and pipes. An architect or structural engineer must specify expansion joints and show location and details on drawings. Follow procedures EJ171 in the TCNA Handbook for ceramic tile and stone installation.

MIXING

Add one 35 lb (15.9 kg) bag of **SCREED 100** to approximately 3 quarts (2.8 liters) of LATEX BOND ADMIX 150 Liquid in a clean container. Mix with low speed (300 RPM) “open loop” design mixing wand/paddle unit a lump-free, soft paste mix is obtained. Always use the lowest amount of liquid to mix with the powder to retain high strength. Allow mix to slake (wait) approximately 5 to 10 minutes before use. Apply mixed underlayment with a steel trowel or screed within 30 minutes after mixing. Do not sprinkle with water after application. Mix only the amount that can be troweled on to surfaces in 30 to 40 minutes.

APPLICATION

All surfaces must be primed or brush-coated with LATEX BOND ADMIX 150 Liquid. Prime coat coverage will be approximate 200-300 sq ft per gallon (4.9 - 7.3 m²/liter). Allow prime coat to become “tacky” and clear or allow it to be dry to touch, then proceed with topping coat. Do not trowel product to excessively cold or excessive hot surfaces or in areas exposed to direct sunlight. Use shade screens or work in the cooler part of the day to prevent rapid dry-out of the surface or cracking. Apply product in temperature range of 40° - 90 °F (4° - 32 °C). Do not allow mortar to freeze for the first 72 hours of application. Apply the mix on the patch/repair area with the straight edge of trowel to scrape and drive fresh, wet, underlayment into the bond surface. Underlayment should be keyed or troweled to substrate to be sure of obtaining a proper bond. Then apply additional mix to the desired thickness. Area may be screed or steel troweled to a smooth finish and upon reaching a hard set may be sanded to desired level and texture. Do not over-trowel or excessively steel trowel the underlayment’s top surface. Multiple layers of underlayment will require priming between applications and a minimum cure time of 20-24 hours is recommended before applying additional pours. Do not exceed three layers of application. **SCREED 100 System** is for pours from featheredge to 3/8” depth. If any extra smooth finish is desired, allow mixture to firm, then sprinkle with LATEX BOND ADMIX 150 liquid and lightly trowel until desired finish is reached. Underlayment should be keyed in and troweled to the concrete floor, thus assuring good adhesion and bond. Start finishing immediately using a steel trowel. Unlike regular cement mix, this product should not be over troweled or retroweled. When applying large areas, screed surface with strike-off bar using two men to prevent skinning, as skinned-over underlayment is more difficult to finish without tearing surface. Do not allow underlayment to dry on tools.

CLEANING

Water is all that is needed to remove uncured product.



COVERAGE

A 35 lb (15.9 kg) bag covers approximately 35 sq ft (3.2 m²) at 3 mm thickness. Primer liquid covers approximately 200-300 sq ft per gallon (4.9 - 7.3 m²/liter).

CURING

A minimum cure is obtained 20 - 24 hours, depending on ambient conditions. Do not allow mortar to freeze during the first 72 hours. Like concrete, the strength increases significantly with time during the first 28 days. Always check for permissible moisture levels of vinyl, carpet, rubber, wood flooring, etc. per flooring manufacturer’s requirements before covering over this product. For exterior or wet applications use of this product, allow 14 day minimum air dry cure before full contact or continuous water immersion or submersion.

STORAGE LIFE

Liquid: One year. Powder: One year if kept dry in sealed bag. Protect liquid from freezing.

TECHNICAL DATA: SCREED 100 SYSTEM

Specification Tests	
Working time	30 min @ 70 °F
Initial set	2 hours @ 70 °F
Final set	8 hours @ 70 °F
Compressive strength (ASTM C-109)	
7 days	3375 psi
28 days	4000 psi
Flexural strength (ASTM C-348) 28 days	750 psi
Tensile strength (ASTM C-190) 28 days	370 psi
Bond strength (ASTM D-3931) 28 days	500 psi
Shipping weight (1 gallon liquid + 1-35# bag)	44 lbs/unit
Consistency	Paste
Suitable as wearing surface	Yes
Recommended for intermittent moisture	Yes

SAFETY - CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for silica dust. Contains portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

KEEP OUT OF REACH OF CHILDREN

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