

# FLOOR COVERING SYSTEMS SUBFLOOR PREPARATION & FLOORING ADHESIVES

PRODUCT GUIDE





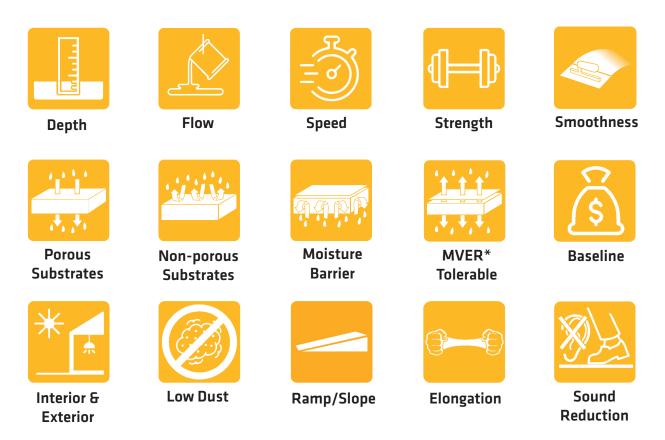
# RELIABLE SYSTEMS MAKE A DIFFERENCE

Time and again it has been proven that the quality of subfloor and the choice of the correct adhesive make all the difference. System selection dictates the end result. Projects easily become something to forget or something to showcase and make you proud! Sika® Secure System plays a critical role in the final appearance and service life of your installed floor.

Sika® is a world renowned market leader in cement, epoxy and polyurethane chemistry, rising above the competition. System solutions offered by Sika® include moisture barriers, self-leveling cementitious underlayment, and wood floor adhesives that have been proven in both refurbishment and new construction projects in commercial and residential construction.

# SIKA® ICON CLASSIFICATION LEGEND

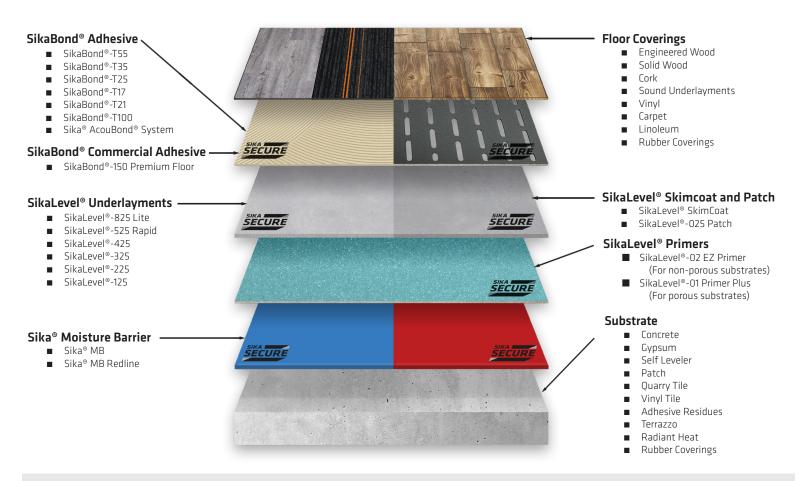
To help choose the best solution for your projects, Sika® has developed a classification system to define the performance and the features of each product. These icons help differ between products regarding curing speed, strength, special features and much more. Use this icon legend throughout this brochure for a better understanding of the products Sika® has to offer.



<sup>\*</sup>MVER: Moisture Vapor Emissions Rate

# SIKA® SECURE SYSTEM

The Sika® Secure System has been developed to deliver the best Sika® solution to meet project needs and provide answers to everyday challenges. From moisture mitigation to underlayments, from patching and skimming, to various flooring adhesives, Sika® provides a total system package.



## Sika® Secure System Examples







For rapid turnaround: < 1 day

# MOISTURE PROTECTION FACTS

Moisture is one of the leading causes of failures on floor covering jobs. Below are the industry accepted test methods for measuring moisture in concrete.

#### **METHOD OF MEASUREMENTS**



Relative Humidity (RH) ASTM F2170



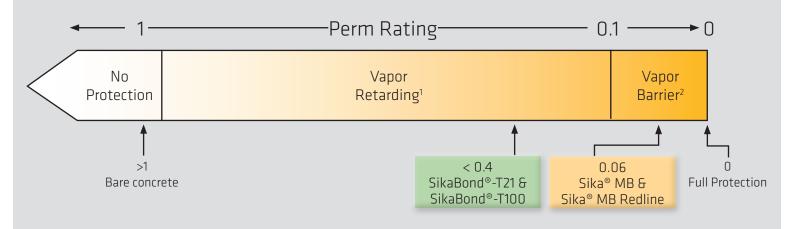
Calcium Chloride ASTM F1869



Tramex® ASTM F2669

#### PERM RATING = MOISTURE BARRIER PRODUCT PERFORMANCE MEASUREMENT

The perm rating demonstrates how well a material resists vapors passing through it. A high value perm rating relates to a low level of moisture protection. A low value of perm rating relates to a high level of moisture protection.

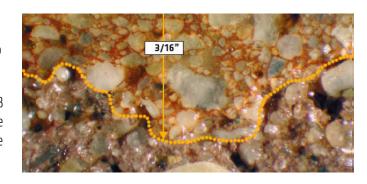


ASTM F3010-18: Membrane-forming moisture mitigation systems shall have a vapor permeance no greater than 0.10 grains/h/ft $^2$ /in. Hg, (perm) when tested in accordance with Test Method E96 Procedure B (water method at 73.4 °F (23 °C)) when applied at the recommended thickness designated by its manufacturer.

#### **LOW VISCOSITY MOISTURE BARRIER**

Sika® MB's and Sika® MB Redline's low viscosity allows it to penetrate into porous substrates, as seen in this cross-section.

Substrate must have an open textured surface to allow Sika®MB and Sika® MB Redline to penetrate. Blast cleaning and grinding are considered acceptable means to achieve the desired surface profile but acid and chemical etching are not acceptable.



# SIKA® MOISTURE BARRIERS

Sika® MB and Sika® MB Redline are 2-component, solvent-free, low-viscosity, epoxies for use under ALL flooring products, including wood, carpet, vinyl, LVT, self-leveling underlayments, floating floors, and other flooring systems that require protection from subfloor moisture.



#### Sika® MB

Moisture barrier, substrate consolidator and adhesion promoter two-component epoxy

- Water Vapor Permeability: 0.06
- Reduction in adhesive consumption
- Cures in 8 hours at 73°F

Tools: Nap roller Color: Blue

#### Coverage per pail:

- Moisture barrier: 250 300 sq.ft.
- Adhesion promoter or substrate consolidator: 400 450 sq.ft

Packaging: 2.64 US. gal. pail





#### Sika® MB Redline

Fast moisture barrier, substrate consolidator and adhesion promoter two-component epoxy

- Water Vapor Permeability: <0.06
- Rapid turnaround
- Cures in 3 hours at 73°F

Tools: Nap roller Color: Red

#### Coverage per pail:

- Moisture barrier: 200 to 250 sq.ft.
- Adhesion promoter or substrate consolidator: 300 350 sq.ft

Packaging: 2 US. gal. pail





Sika® MB and Sika® MB Redline: 100% RH, #25 CC, 6% Tramex

#### MOISTURE PROTECTION



#### WHERE TO USE

- Up to 100% RH, 25 lbs calcium chloride and under 6% Tramex
- Under any flooring system that requires protection from moisture

#### SUBSTRATE CONSOLIDATION



#### WHERE TO USE

- On weak or delicate substrates
- On old substrates
- Gypsum-based subfloors

#### ADHESION PROMOTION



#### WHERE TO USE

- Over old adhesive and residues
- Encapsulating asphalt based substrates including cutback
- Over old substrates

# REPROFILING PATCH AND SKIMCOAT

SikaLevel® SkimCoat and SikaLevel®-025 Patch are fast-setting, polymer-modified, cement-based compound that repair and re-profile concrete interior subfloors while providing a smooth finish prior to the installation of a floor covering.

## SikaLevel®-025 Patch



Rapid Setting, Polymer Modified, Cement-based Patching Compound

- For patching and leveling from featheredge to 1/2"
- Foot traffic in 30 to 60 minutes
- Apply over difficult substrates

**Coverage:** 25-30 sqft. at 1/8"

thickness

Packaging: 25 lb. bags



Ramp/Slope



## SikaLevel® SkimCoat



Fast setting, reprofiling mortar for use in feather edge applications before sensitive floor coverings

- Easy to use
- High adhesion
- No moisture limitations

**Coverage:** Approx. 110

sq.ft./bag

Packaging: 4 x 10 lb. bags/

packs



MVER Tolerable





# SIKALEVEL® PRIMERS

SikaLevel® primers can be used on a wide range of substrates before the application of Sika® self-leveling cementitious products. These primers can reduce the absorbency of the substrates and improve the adhesion between the underlayment and the substrate.

## SikaLevel®-01 Primer Plus



Primer for porous substrates. Reduces absorbency of the substrate

- Broom applied
- Reduces pinholes
- 10 minute dry time on concrete
- Can be diluted with water

Color: White

Tools: Broom or brush

**Coverage:** 600-1000 sq.ft. dilution 1:3 Packaging: 1 US. gal. jug or

5 US. gal. jug



**Porous Substrates** 





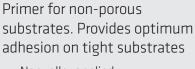








## SikaLevel®-02 EZ Primer



- Nap roller applied
- Good skid resistant properties
- Short waiting time
- No dilution required

Color: Mint **Tools:** Nap roller

**Coverage:** 350 - 500 sq.ft. Packaging: 1 US. gal. pail



02 EZ Primer

**Non-Porous** 















# SIKALEVEL® - UNDERLAYMENTS



#### SikaLevel®-125

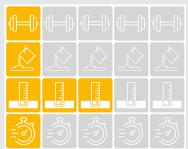
Durable self-leveling underlayment

- Economical
- Levels new and old floors

**Coverage:** 21 sq.ft. at 1/4" per bag

Packaging: 50 lb. bags







## SikaLevel®-325

High performance self-leveling underlayment

- Interior & exterior use
- Deep pour
- High strength

Coverage: 26 sq.ft. at 1/4" per bag

Packaging: 55 lb. bags







## SikaLevel®-225

Premium self-leveling underlayment

- Superior flow
- Long workability
- Quick turnaround

**Coverage:** 28 sq.ft. at 1/4" per bag

Packaging: 55 lb. bags







## SikaLevel®-425

Dust reduced self-leveling underlayment

- Great for mixing in interior spaces
- High flow
- Castor wheels loading

Coverage: 30 sq.ft. at 1/4" per bag

Packaging: 55 lb. bags







# SikaLevel®-525 Rapid

Fast setting self-leveling underlayment

- Extremely high flow
- 7,600 psi at 28 days
- Accepts most floor covering in 90 minutes

**Coverage:** 30 sq.ft. at 1/4" per bag

Packaging: 55 lb. bags







## SikaLevel®-825 Lite

Premium gypsum-based underlayment

- Optimal use for difficult substrates
- Suitable on all gypsum, cement, and substrates with old adhesive residue
- Low Dust

**Coverage:** 30 sq.ft. at 1/4" per bag

Packaging: 55 lb. bags





	Appl	ication Thick	rness	Floor Co	Compressive Strength	
	Minimum	Maximum	With Aggregate	Non Moisture Sensitive	Moisture Sensitive	28 Days
SikaLevel®-125	1/8''	1''	2''	2 - 3 hours	1 - 3 days	4,000 psi
SikaLevel®-225	1/16''	1 1/4''	2 ½''	3 hours	16 hours	4,500 psi
SikaLevel®-325	1/8''	1 1/2"	3"	4 hours	24 hours	5,300 psi
SikaLevel®-425	1/16''	1''	2''	3 hours	16 hours	5,600 psi
SikaLevel®-525 Rapid	1/16''	1/2"	1''	1.5 - 2 hours	90 minutes (wood: 12 hours)	7,600 psi
SikaLevel®-825 Lite	1/16"	1 ½"	2''	18 hours @ 1/8"	18 hours @ 1/8"	5,600 psi

# WOOD FLOOR ADHESIVES



## SikaBond®-T55

Trowel Grade, Polyurethane Solid Wood Flooring Adhesive

■ Elongation: 400%

■ Tensile Strength: 217 psi at 73°F and 50% RH

Coverage: 45 - 50 sq.ft./gal as adhesive only

Packaging: 5 US. gal. pails





#### SikaBond®-T35

Trowel Grade, Polyurethane Wood Flooring Adhesive

■ Elongation: 170%

■ Tensile Strength: 150 psi at 73°F and 50% RH

Coverage: All-in-One: 30 - 35 sq.ft./gal. Adhesive Only: 45 - 50 sq.ft./gal.

Packaging: 5 US. gal. pails







## SikaBond®-T25

Trowel Grade, Polyurethane Wood Flooring Adhesive

■ Elongation: 125%

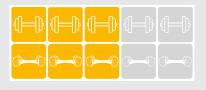
■ Tensile Strength: 150 psi at 73°F and 50% RH

Coverage: All-in-One: 30 - 35 sq.ft./gal.

Adhesive Only: 45 - 50 sq.ft./gal.

Packaging: 5 US. gal. pails







## SikaBond®-T17

Trowel Grade, Polyurethane Wood Flooring Adhesive

■ Elongation: 100%

■ Tensile Strength: 150 psi at 73°F and 50% RH

Coverage: All-in-One: 30 - 35 sq.ft./gal.

Adhesive Only: 45-50 sq.ft./gal.

Packaging: 4 US. gal. pails





# SPECIALTY WOOD FLOOR ADHESIVES



#### SikaBond®-T21

All-in-One, Sound Control, Moisture Barrier Wood Flooring Urethane Adhesive

■ Elongation: 270%

■ Tensile Strength: 150 psi at 73°F and 50% RH

■ Unlimited subfloor moisture vapor protection

Coverage: All-in-One: 30 - 35 sq.ft./gal. Adhesive Only: 45 - 50 sq.ft./gal.

Packaging: 4 US. gal. pails Sound Ratings: ΔIIC: 21, STC: 63







### SikaBond®-T100

All-in-One Hybrid Sound Control, Moisture Barrier Wood Flooring Adhesive

■ Elongation: 150%

■ Tensile Strength: 150 psi at 73°F and 50% RH

Unlimited subfloor moisture vapor protection

■ Easily cleans off prefinished floors before and after cure

Coverage: All-in-One: 30 - 35 sq.ft./gal.

Adhesive Only: 45 - 50 sq.ft./gal.

Packaging: 4 US. gal. pails

Sound Ratings: AIIC: 21, STC: 62, IIC: 67







## Sika® AcouBond® System

Elastic Bonding and Acoustical Dampening for Wood Floors

■ SikaBond®-T53 Elongation: 500%

■ Tensile Strength: 174 psi at 73°F and 50% RH

**Coverage: SikaBond®-T53 (adhesive):** 1 unipac = 13.4 sq.ft,

20 unipacs = 269 sq.ft.

**SikaLayer®-03 (acoustic mat):** 1 roll = 269 sq.ft.

Packaging: SikaBond°-T53 (adhesive): 20 fl.oz. unipac (case of 20)

SikaLayer®-03 (acoustic mat): Roll

Sound Ratings: AIIC: 24, STC: 63, IIC: 59



#### **Application Guide**

Application datac							
	Adhesi	ve Only	All-In-One: 100% o				
Product	Engineered Wood Solid Wood Width Width		Engineered Wood	Solid Wood	Moisture Limitations for All-in-One Application		
			Width	Width	7 0 7		
SikaBond®-T55	Unlimited	Unlimited	-	-	-		
SikaBond®-T35	Unlimited	8"	Unlimited	8"	15# CC, 90% RH		
SikaBond®-T25	Unlimited	5"	Unlimited	5"	12# CC, 87% RH		
SikaBond®-T17	Unlimited	5"	Unlimited	5"	8# CC, 85% RH		
SikaBond®-T21	Unlimited	8"	Unlimited	8"	Unlimited		
SikaBond®-T100	Unlimited	8"	Unlimited	8"	Unlimited		
Sika® AcouBond® System	Unlimited	Unlimited	-	-	-		

# RESILIENT ADHESIVES & ACCESSORIES

## SikaBond® 150 Premium Floor

Universal Pressure Sensitive Acrylic Adhesive for all Flexible Coverings



- Suitable for all type of vinyls, carpets, linoleum and synthetic rubber coverings as well as impact sound insulation underlayments on porous substrates in interior areas
- Up to an 8 hour working time
- Solvent free
- Tenacious strength
- Low odor
- High coverage
- Short waiting time

Moisture Limitations: 9# CC, 90% RH,

6# CC, 85% RH (lineleum or rubber)

**Coverage: 1/16"x 1/32"x 1/32" U notch:** 220 - 260 sq.ft./gal. **1/16"x 1/16"x 1/16" Square Notch:** 150 - 180 sq.ft./gal.

Packaging: 4 US. gal. pails

### SikaBond® Remover

Fast drying solvent cleaner

- Ideal for SikaBond® urethane adhesives even after curing
- Does not leave "ghosting" on wood floor finish
- Leaves no residue
- Low odor

Packaging: 1 pint bottles;







## Sikaflex® 11FC

Glue assist polyurethane adhesive

- Use to assists with the nailing of flooring 5" and wider
- Apply using Cordon System or Serpentine System
- Highly elastic
- High strength durable adhesion



## SikaBond® Construction Adhesive

One-component, moisture cured, elastomeric polyurethane adhesive

- Versatile superior adhesion
- Remains permanently elastic
- Waterproof after cure











## WARRANTY

Product Category	Product Name	Carpet, Sheet Vinyl, LVT & Wood Floors
Moisture Barriers	Sika® MB Sika® MB Redline	
Primers	SikaLevel®-01 Primer Plus SikaLevel®-02 EZ Primer	
Self Leveling Compounds	SikaLevel® SkimCoat SikaLevel®-025 Patch SikaLevel®-225 SikaLevel®-325 SikaLevel®-425 SikaLevel®-525 Rapid SikaLevel®-825 Lite	Equal to the Floor Covering Manufacturer's Warranty Period
Wood Floor Adhesives	Sika® AcouBond® System SikaBond®-T21 SikaBond®-T35 SikaBond®-T55 SikaBond®-T100	
Soft Floor Covering Adhesive	SikaBond®-150 Premium Floor	

#### WHAT DOES THE SIKA SECURE WARRANTY COVER?

**Labor and Materials** are covered by the Sika® Secure Warranty. To get the benefit of a Sika® Limited Material and Labor Warranty you must first fulfill the warranty application requirments.

In the event of a valid claim under this Warranty, Sika® in its discretion will either pay the reasonable cost of labor and materials to repair or replace on a square foot basis the portion of the floor proven to be defective due to a defect in the Sika® Product(s) subject to exclusions as set in the Warranty. Sika® will repair or replace the affected floor one time only. Any repairs made prior to Sika® evaluating the claim will void this Warranty. Please contact your local Sika® Sales Representative for more information and warranty requirements.

#### HOW ARE THE TERMS OF THE "SIKA SECURE WARRANTY" DEFINED?

The Sika® Secure Warranty length is defined as a period of time equal to the flooring manufacturer's warranty period.

If no flooring manufacturer's warranty applies, "Sika Secure Warranty" is defined as a period of time not to exceed **10 years for carpet and sheet vinyl**, **15 years for luxury vinyl tile** (LVT), or **25 years for wood floors or other floor covering systems**.

# PRODUCT SELECTION CHART

			Floor Coverings								
	Product	Description	Engineered Wood	Solid Shorts	Solid Wood	Ceramic Tile	Vinyl Tile (VCT, LVT, etc.)	Cork	Floating Floors	Residential Carpet Pad	Linoleum
imers	Sika° MB	Moisture barrier, substrate consolidator and adhesion promoter two-component epoxy	•	•	•	•	•	•	•	•	•
irs and Pr	Sika° MB Redline	Fast moisture barrier, substrate consolidator and adhesion promoter two-component epoxy	•	•	•	•	•	•	•	•	•
Moisture Barriers and Primers	SikaLevel°-01 Primer Plus	Primer for porous substrates & protection against moisture from leveling compounds	•	•	•	-	•	•	•	•	•
Moist	SikaLevel°-02 EZ Primer	Primer for non-porous substrates. Provides optimum adhesion on tight substrates	•	•	•	-	•	•	•	•	•
	SikaLevel°-125	Durable, cementitious, self-leveling underlayment	•	•	•	-	•	•	•	•	•
hes	SikaLevel°-225	Superior flow, cementitious, self-leveling underlayment	•	•	•	-	•	•	•	•	•
Self Leveling Underlayments and Patches	SikaLevel°-325	High strength, cementitious, self-leveling underlayment	•	•	•	•	•	•	•	•	•
ayments	SikaLevel°-425	Dust reduced, cementitious, self-leveling underlayment	•	•	•	•	•	•	•	•	•
ig Underl	SikaLevel°-525 Rapid	Rapid setting, cementitious, self-leveling underlayment	•	•	•	•	•	•	•	•	•
If Levelin	SikaLevel°-825 Lite	Synthetic Gypsum-based, self-leveling under- layment	•	•	•	-	•	•	•	•	•
S	SikaLevel° SkimCoat	Fast setting, reprofiling mortar for use in true feather edge applications before sensitive floor coverings	•	•	•	•	•	•	•	•	•
	SikaLevel®-025 Patch	Cement-based Patching Compound from feather edge up to 1/2"	•	•	•	•	•	•	•	•	•
	SikaBond°-T55	High elongation polyurethane adhesive for solids and dimensionally unstable woods	•	•	•			•			
	SikaBond°-T35	Trowel grade highly elastic polyurethane adhesive	•	•	•			•			
	SikaBond°-T25	Trowel grade easy to use polyurethane adhesive	•	•	•			•			
sives	SikaBond°-T17	Economical, polyurethane engineered wood flooring adhesive	•	•	•			•			ad Linoleum
Adhesives	SikaBond°-T21	All-in-one polyurethane adhesive for moisture and sound protection	•	•	•			•			
	SikaBond°-T100	All-in-One hybrid polyurethane, sound control, moisture barrier wood flooring adhesive	•	•	•			•			
	Sikalevel°-02 EZ Primer  Sikalevel°-02 EZ Primer  Sikalevel°-125 Durab under  Sikalevel°-125 Unrab under  Sikalevel°-325 High sunder  Sikalevel°-325 Rapid under  Sikalevel°-325 Rapid under  Sikalevel°-525 Rapid under  Sikalevel°-525 Rapid sikalevel°-525 Rapid under  Sikalevel°-525 Rapid under  Sikalevel°-625 Cemer edge Lose Sikalevel°-625 Cemer edge Lose Sikalevel°-755 Sikalevel°-755 Trowe solids  Sikalevel°-755 Trowe adhes  Sikalevel°-755 Trowe	Elastic bonding and acoustical dampening for wood floors	•	•	•						
	SikaBond°-150 Premium Floor	Universal pressure sensitive acrylic adhesive for all flexible coverings					•			•	•

Always refer to flooring manufacturer's recommendations and technical guidelines if substrate unknown. Mock-ups for bond and compatibility test are required.

Substrates									Advantages			
Concrete	Gypsum	Self Leveler + Patching	Plywood	Quarry Tiles	Vinyl Tile (VCT, LVT, etc.)	*Asphaltic Cutback	Adhesive Residues	Terrazzo	Radiant Heat	Rubber Underlayment	Moisture Protection	Sound Reduction
•	•	•	•	•	•	•	-	<b>■</b> *	•	-	•	
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<sup>\*</sup>Sika® Level-01 Primer Plus

<sup>\*</sup>Sika® Level-02 EZ Primer

<sup>\*</sup>Sika Level Underlayments



# MAKE YOUR FLOOR SIKA SECURE

For more information, contact Sika: Phone: 1-800-933-SIKA (Nationwide), Website: www.sikasecure.com





Our most current General Sales Conditions shall apply. Please consult the Product Data Sheets prior to any use and processing.

#### **SIKA CORPORATION**

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