

FLOOR COVERING SYSTEMS SUBFLOOR PREPARATION & WOOD FLOOR BONDING

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

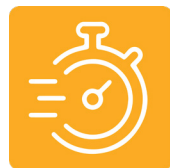
To help choose the best solution for your projects, Sika® has developed a classification system to define the performance and the features of each product. These icons help differ between products regarding curing speed, strength, special features and much more. Use this icon legend throughout this brochure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



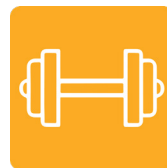
Depth



Flow



Speed



Strength



Smoothness



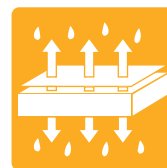
**Porous
Substrates**



**Non-porous
Substrates**



**Moisture
Barrier**



**MVER*
Tolerable**



Baseline



**Interior &
Exterior**



Low Dust



Wear Layer



Elongation

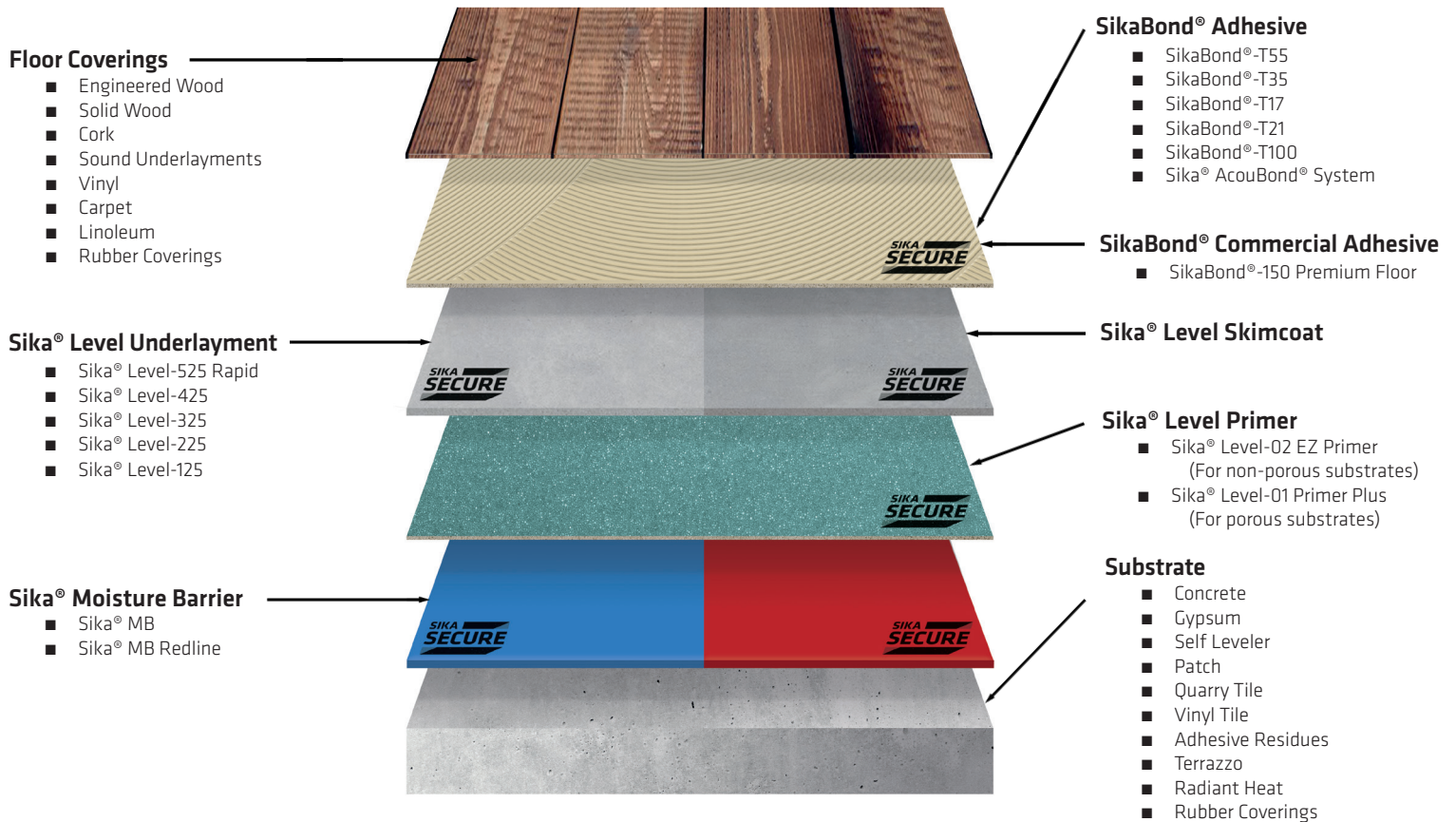


**Sound
Reduction**

*MVER: Moisture Vapor Emissions Rate

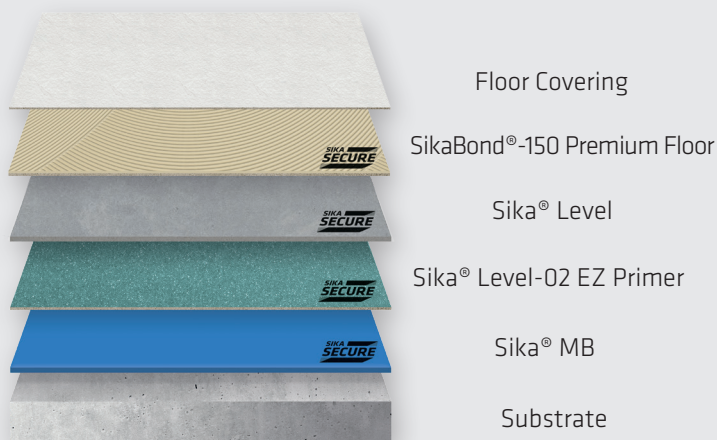
SIKA® SECURE SYSTEM

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 wood floor adhesives, Sika® provides a total system package.



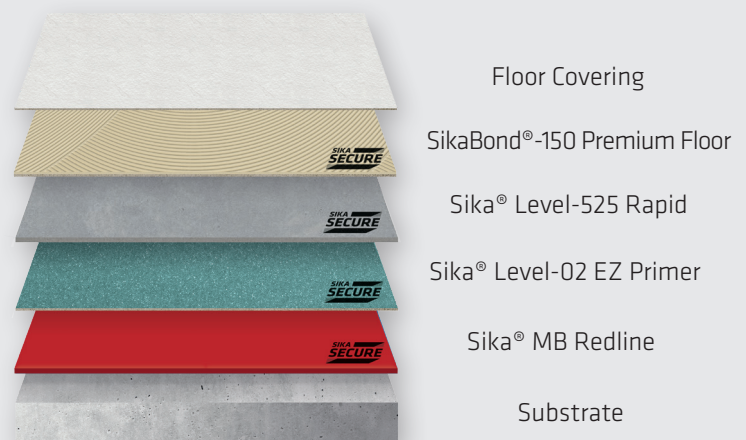
Sika® Secure System Examples

Sika® Secure Standard



For standard turnaround: 2 days

Sika® Secure Rapid



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



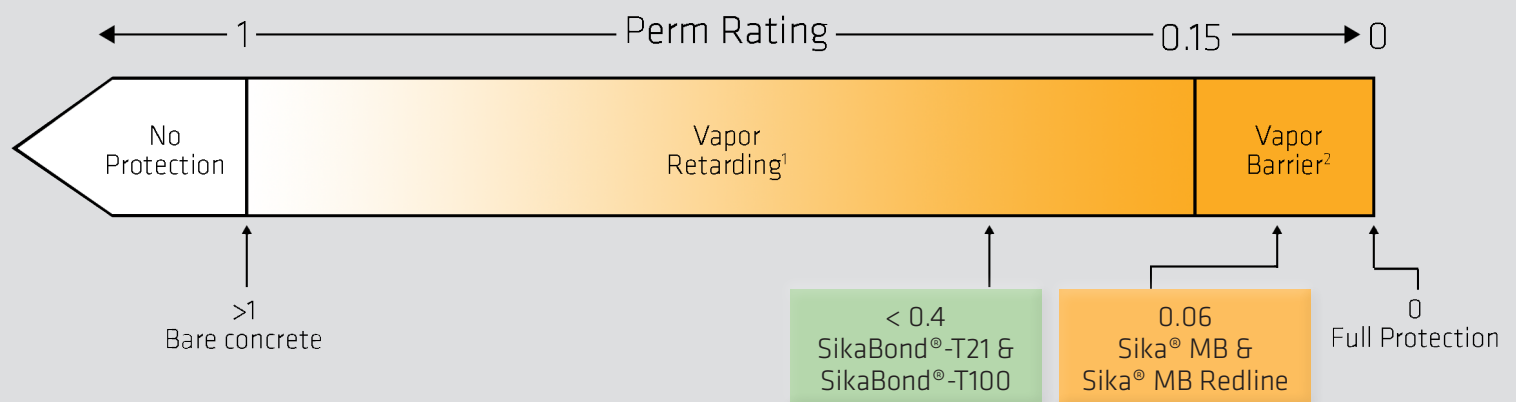
Calcium Chloride
ASTM F1869



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.



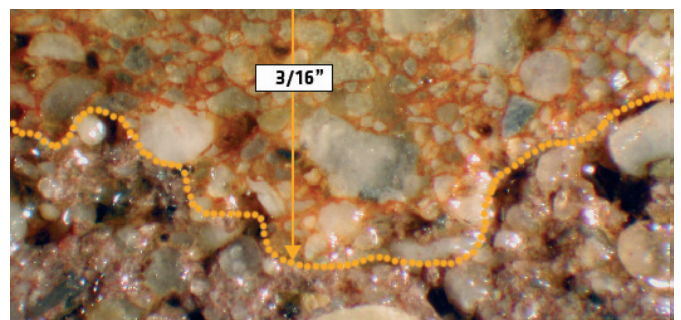
¹The 2006 International Residential Code defines a vapor retarder as a vapor-resistant material, membrane or covering such as foil, plastic sheeting or other material recommended by the manufacturer having a permeance rating of 1 perm or less when tested in accordance with ASTM E-96 Method A.

²The NWFA recommends an "impermeable" vapor retarder with a perm rating of less than or equal to 0.15, thereby limiting the passage of moisture to near zero.

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

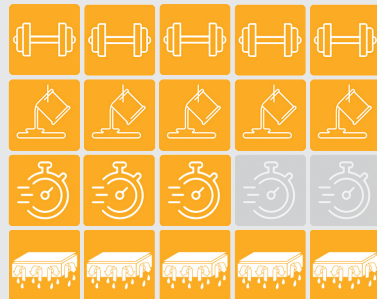
- Water Vapor Permeability: 0.06
- Reduction in adhesive consumption
- Cures in 8 hours at 73°F

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

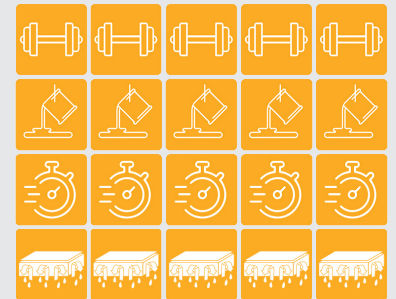
- Water Vapor Permeability: <0.06
- Rapid turnaround
- Cures in 3 hours at 73°F

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

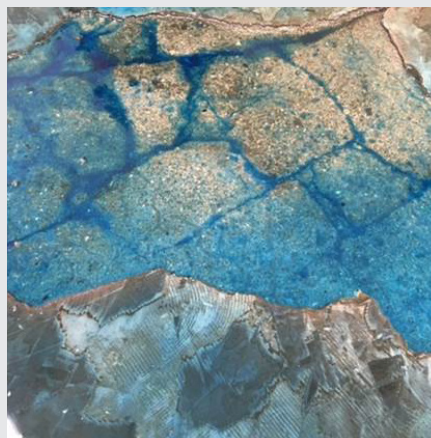
MOISTURE PROTECTION



WHERE TO USE

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

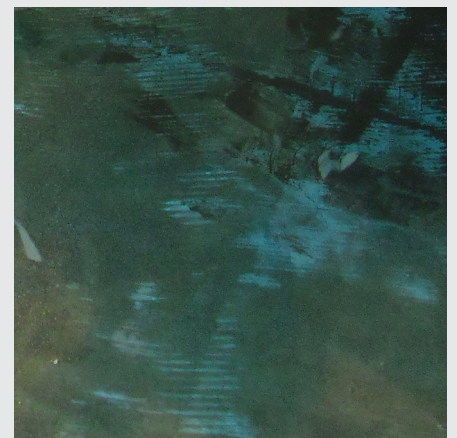
SUBSTRATE CONSOLIDATION



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 SKIMCOAT

Sika® Level SkimCoat is a fast-setting, polymer-modified, cement-based compound that repairs and re-profiles concrete interior subfloors prior to the installation of a floor covering. Sika® Level SkimCoat provides a smooth finish before the installation of carpet and LVT and other floor coverings.

Sika® Level SkimCoat

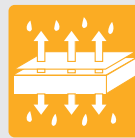


Fast setting, reprofiling mortar for use in feather edge applications before sensitive floor coverings

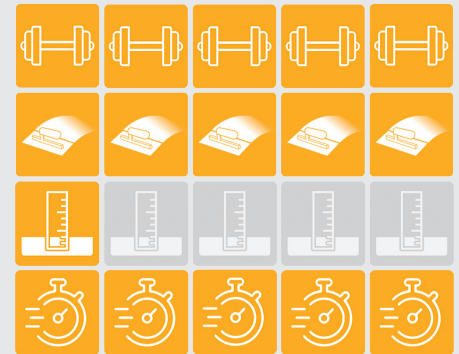
- Easy to use
- High adhesion
- No moisture limitations

Coverage: Approx. 110 sq.ft./bag

Packaging: 4 x 10 lb. bags/packs



**MVER
Tolerable**



Sika® Level SkimCoat

SIKA® LEVEL PRIMERS

Sika® Level 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.

Sika® Level-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: 770 sq.ft. dilution 1:3

Packaging: 1 US. gal. jug or
5 US. gal. jug



**Porous
Substrates**



Sika® Level-02 EZ Primer



Primer for non-porous substrates. Provides optimum adhesion on tight substrates

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

Color: Mint

Tools: Nap roller

Coverage: 350 - 500 sq.ft.

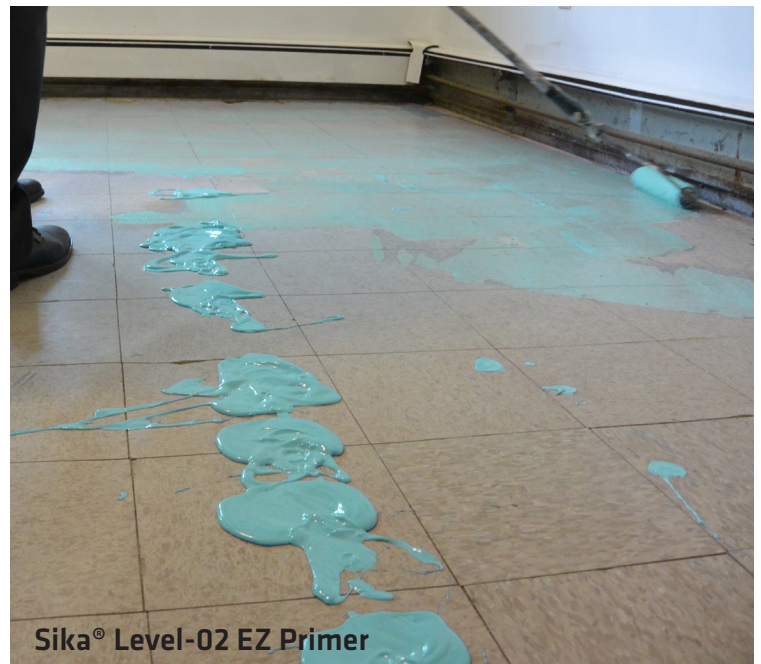
Packaging: 1 US. gal. pail



**Non-Porous
Substrates**



Sika® Level-01 Primer Plus



Sika® Level-02 EZ Primer

SIKA® LEVEL - UNDERLAYMENTS



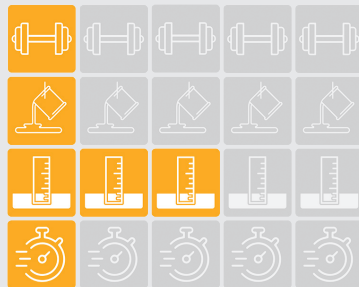
Sika® Level-125

Durable self-leveling underlayment

- Economical
- Levels new and old floors

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

Packaging: 50 lb. bags



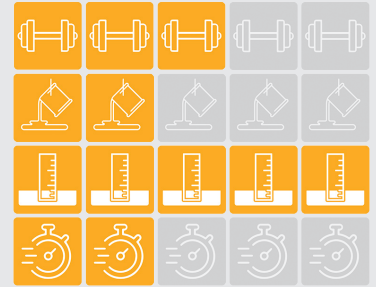
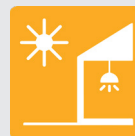
Sika® Level-325

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



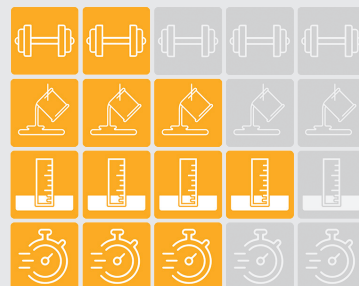
Sika® Level-225

Premium self-leveling underlayment

- Superior flow
- Long workability
- Quick turnaround

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

Packaging: 55 lb. bags



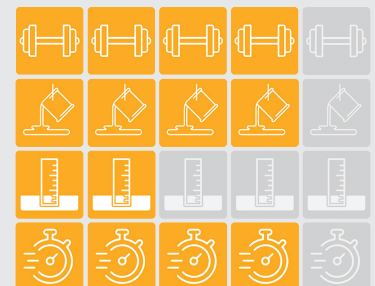
Sika® Level-425

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





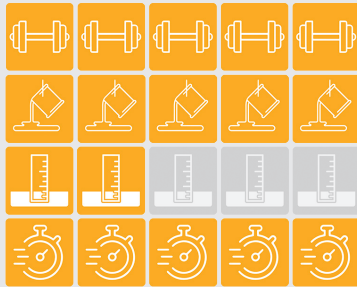
Sika® Level-525 Rapid

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



	Application Thickness			Floor Covering		Compressive Strength
	Minimum	Maximum	With Aggregate	Non Moisture Sensitive	Moisture Sensitive	28 Days
Sika® Level-125	1/8"	1"	2"	2 - 3 hours	1 - 3 days	4,000 psi
Sika® Level-225	1/16"	1 1/4"	2 1/2"	3 hours	16 hours	4,500 psi
Sika® Level-325	1/8"	1 1/2"	3"	4 hours	24 hours	5,300 psi
Sika® Level-425	1/16"	1/2"	1"	3 hours	16 hours	5,600 psi
Sika® Level-525 Rapid	1/16"	1/2"	1"	1.5 - 2 hours	90 minutes (wood: 12 hours)	7,600 psi

WOOD FLOOR ADHESIVES



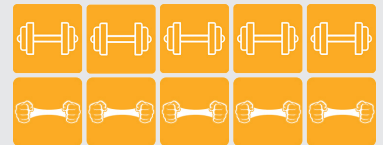
SikaBond®-T55

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

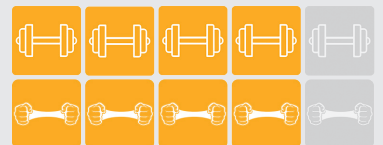
Trowel Grade, Polyurethane Wood Flooring Adhesive

- 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

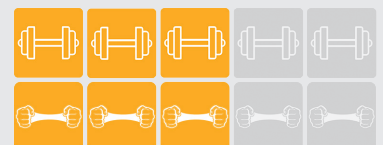
Trowel Grade, Polyurethane Wood Flooring Adhesive

- 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

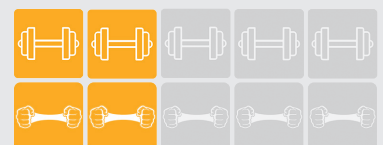
Trowel Grade, Polyurethane Wood Flooring Adhesive

- 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

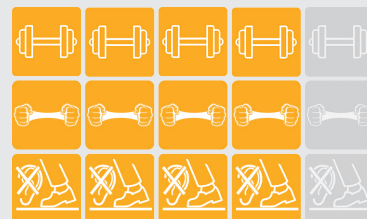
- Elongation: 270%
- Tensile Strength: 150 psi at 73°F and 50% RH
- Unlimited subfloor moisture vapor protection

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

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

Packaging: 4 US. gal. pails

Sound Ratings: Δ IIC: 21, STC: 63



SikaBond®-T100

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

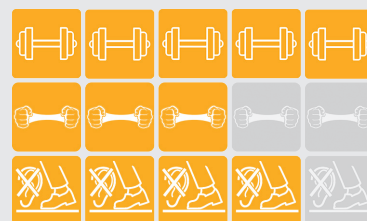
- Elongation: 150%
- Tensile Strength: 400 psi at 73°F and 50% RH
- Unlimited subfloor moisture vapor protection
- Easily cleans off prefinished floors before and after cure

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

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

Packaging: 4 US. gal. pails

Sound Ratings: Δ IIC: 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

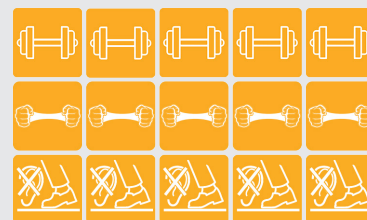
Coverage: SikaBond®-T53 (adhesive): 1 unipac = 13.4 sq.ft.,
20 unipacs = 269 sq.ft.

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: Δ IIC: 24, STC: 63, IIC: 59



Application Guide

Product	Adhesive Only		All-In-One: 100% coverage is required		Moisture Limitations for All-in-One Application
	Engineered Wood	Solid Wood	Engineered Wood	Solid Wood	
	Width	Width	Width	Width	
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
- Solvent free
- Tenacious strength
- Low odor
- High coverage
- Short waiting time

Moisture Limitations: 9# CC, 90% RH,
6# CC, 85% RH (linoleum or rubber)

Coverage: 1/16" x 1/16" x 1/16": 600 - 800 sq.ft./gal.

1/8" x 1/8" x 1/16": 380 - 520 sq.ft./gal.

3/32" x 3/32" x 3/32": 380 - 520 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;
12 per case



Sikaflex® 11FC

Glue assist polyurethane adhesive

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

10.1 fl. oz. cartridge
Seals 12.4 lineal ft. of 1/2 x 1/4 in. bead



SikaBond® Construction Adhesive

One-component, moisture cured, elastomeric polyurethane adhesive

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

10.1 fl. oz. cartridge
Seals 12.4 lineal ft. of 1/2 x 1/4 in. joint.

29 fl. oz. cartridge
Seals 35 lineal ft. of 1/2 x 1/4 in. joint.



WARRANTY

MOISTURE BARRIERS, PRIMERS, SKIMCOAT, UNDERLAYMENTS

Product Category	5 Year* System Limited Warranty	10 Year* System Limited Warranty
Reprofiling SkimCoat	Sika® Level SkimCoat	Sika® Level SkimCoat
Primers and Moisture Barriers	Sika® Level 01-Primer Plus Sika® Level 02-EZ Primer Sika® MB Sika® MB Redline	Sika® Level-01 Primer Plus Sika® Level-02 EZ Primer Sika® MB Sika® MB Redline
Self Leveling Underlayments	Sika® Level-125	Sika® Level-225 Sika® Level-325 Sika® Level-425 Sika® Level-525 Rapid

* To get the benefit of a Sika® limited material and labor warranty you must first fulfill the warranty application requirements. Please contact your local Sika® sales representative for more information and warranty requirements.

WOOD FLOOR ADHESIVES

Product Category	Product	Warranty
Wood Floor Adhesives	SikaBond®-T55 SikaBond®-T35 SikaBond®-T25 Sika® AcouBond® System	Same warranty as the wood floor manufacturer
All-in-One wood floor adhesives	SikaBond®-T21 SikaBond®-T100	

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 this 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.

PRODUCT SELECTION CHART

	Product	Description	Floor Coverings								
			Engineered Wood	Solid Shorts	Solid Wood	Ceramic Tile	Vinyl Tile (VCT, LVT, etc.)	Cork	Floating Floors	Residential Carpet Pad	Linoleum
Moisture Barriers and Primers	Sika® MB	Moisture barrier, substrate consolidator and adhesion promoter two-component epoxy	■	■	■	■	■	■	■	■	■
	Sika® MB Redline	Fast moisture barrier, substrate consolidator and adhesion promoter two-component epoxy	■	■	■	■	■	■	■	■	■
	Sika® Primer-01 Plus	Primer for porous substrates & protection against moisture from leveling compounds	■	■	■	■	■	■	■	■	■
	Sika® Level-02 EZ Primer	Primer for non-porous substrates. Provides optimum adhesion on tight substrates	■	■	■	■	■	■	■	■	■
Self Leveling Underlayments and Patches	Sika® Level-125	Durable, cementitious, self-leveling underlayment	■	■	■	■	■	■	■	■	■
	Sika® Level-225	Superior flow, cementitious, self-leveling underlayment	■	■	■	■	■	■	■	■	■
	Sika® Level-325	High strength, cementitious, self-leveling underlayment	■	■	■	■	■	■	■	■	■
	Sika® Level-425	Dust reduced, cementitious, self-leveling underlayment	■	■	■	■	■	■	■	■	■
	Sika® Level-525 Rapid	Rapid setting, cementitious, self-leveling underlayment	■	■	■	■	■	■	■	■	■
	Sika® Level SkimCoat	Fast setting, reprofiling mortar for use in true feather edge applications before sensitive floor coverings	■	■	■	■	■	■	■	■	■
Adhesives	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	■	■	■			■			
	SikaBond®-T17	Economical, polyurethane engineered wood flooring adhesive	■	■	■			■			
	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	■	■	■			■			
	Sika® Acoubond® System	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
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■	■	■	■	■**	■** or ■**	■** or ■**	■** or ■**	■**	■	■		

*Sika® MB & MB Redline *Sika® Level-01 Primer Plus *Sika® Level-02 EZ Primer *Sika Level Underlayments
 *Mechanically Prepared *Embossed *Must have 50% of old material removed

The image displays a variety of Sika Level products used for concrete leveling. On the left, five large yellow bags are shown, each with a different product name and weight: Sika Level 125 (55 lbs / 24.9 kg), Sika Level 225 (55 lbs / 24.9 kg), Sika Level 325 (55 lbs / 24.9 kg), Sika Level 425 (55 lbs / 24.9 kg), and Sika Level 525 Rapid (55 lbs / 24.9 kg). Each bag features a red Sika logo and a picture of the product being applied. To the right of the bags are three yellow plastic containers: a large one labeled 'Sika Level SkimCoat', a medium one labeled 'Sika Level 01 Primer Plus', and a small one labeled 'Sika Level 02 EZ Primer'. The background is a grey wall with the word 'SECURE' in large, bold, black letters.



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



SIKA MEXICANA S.A. DE C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537

