



## PRODUCT DATA SHEET

# Sikaflex® HY 35

(formerly MSeal HY 35)

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ONE-COMPONENT, NON-SAG, ELASTOMERIC HYBRID SEALANT

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### PRODUCT DESCRIPTION

Sikaflex® HY 35 is a one-component, fast-curing, gun-grade, elastomeric hybrid sealant. Sikaflex® HY 35 is formulated with unique polymers that allow for versatile adhesion to a variety of substrates providing long-term durability. It combines the best qualities of organic and silicone sealants to keep moving joints weathertight.

### USES

- Vertical or horizontal
- Exterior or interior
- Above grade
- For sealing a variety of building joints against water and air intrusion
- Storefront systems
- Expansion joints
- Panel walls
- Precast units
- Aluminum, vinyl, and wood window frames
- Fascia
- Parapets
- Sanitary applications
- Roofing

#### Substrates

- PVDF Coatings
- Stucco
- Aluminum
- Concrete
- Masonry
- Wood
- Stone
- Metal
- Vinyl
- Fiber cement siding

## CHARACTERISTICS / ADVANTAGES

- Strong adhesion to a variety of substrates resulting in a long-term bond
- Formulated for joint movement of  $\pm 35\%$
- Resists chalking, cracking, and fading to maintain long-lasting weathertight seals
- Compatible with most elastomeric coatings and can be painted soon after installation
- Easy to gun and tool, which speeds up application and makes neater joints
- Fast curing helps to speed up jobsite production
- Wide temperature application range
- Non-staining formula for use on stone and other sensitive substrates
- Meets all State and Federal VOC regulations
- Low-emitting material suitable for use in classrooms, health care facilities, private offices, and single-family homes

## APPROVALS / STANDARDS

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O\*\*
- Federal Specification TT-S-001543A, Type II, Class A, Type Nonsag
- Federal Specification TT-S-00230C, Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A

\*\* Refer to substrates in Uses.

## PRODUCT INFORMATION

<b>Chemical Base</b>	Sikaflex® HY 35 is a formulation based on hybrid technology.
<b>Packaging</b>	300 ml (10.1 fl oz) cartridges, 30 cartridges per carton 590 ml (20 fl oz) ProPaks, 20 per carton
<b>Shelf Life</b>	18 months when properly stored
<b>Storage Conditions</b>	Store in original, unopened containers in a cool, dry area. Protect unopened containers from heat and direct sunshine. Storing at elevated temperatures will reduce shelf life.
<b>Color</b>	White, Limestone, Black, Stone, Redwood Tan, Aluminium Grey, Medium Bronze, Off White, Special Bronze and Tan

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	22 at standard conditions	(ASTM C 661)
<b>Tensile Strength</b>	270psi (1.86MPa)	(ASTM D 412)
<b>Tensile Modulus of Elasticity</b>	100% Modulus	80psi (0.55MPa) (ASTM D 412)
<b>Elongation at break</b>	400%	(ASTM D 412)
<b>Movement Capability</b>	$\pm 35$	(ASTM C 719)

Bond durability\*: pli on Passes (ASTM C 719)  
 glass, aluminum, and  
 concrete, ± 35%  
 movement

\*Sikaflex® HY 35 is not recommended for application on glass  
 Concrete primed with Sika® Primer-179 for water immersion as indicated in  
 ASTM C 920.

Test results are averages obtained under laboratory conditions. Reasonable  
 variations can be expected.

<b>Adhesion in peel</b>	Aluminum	28.5pli (5.08kg/cm)	(ASTM C 794)
	Glass	27.0pli (4.82kg/cm)	(minimum 5 pli [0.89 kg/cm])
	Concrete	26.0pli (4.64kg/cm)	
	after UV radiation through glass	22.0pli (3.93kg/cm)	
<b>Tear Strength</b>	20lb/in (3.57kg/cm)	(ASTM D 1004)	
<b>Shrinkage</b>	None		
<b>Service Temperature</b>	-40 to 185°F (-40 to 85°C)		
<b>Resistance to Weathering</b>	Xenon arc, 2,000 hrs	No Cracking	(ASTM G 155)
	≤ 1% Weight loss after heat aging		(ASTM C 1246)
<b>Color</b>	Passes(no visible stain)		(ASTM C 510)
<b>Joint width</b>	Joint Width Inches (MM)	Sealant Depth at midpoint Inches (MM)	
	1/4 – 1/2 (6–13)	1/4 (6)	
	1/2 – 3/4 (13–19)	1/4 – 3/8 (6–10)	
	3/4 – 1 (19–25)	3/8 – 1/2 (10–13)	
	1–1 1/2 (25–38)	1/2 (13)	
<b>Extrusion rate</b>	1548 mL/min	(ASTM C 1183)	

## APPLICATION INFORMATION

### Coverage

#### Linear Feet per Gallon

(One gallon equals approximately 12 cartridges)

Joint Width(Inches)	Joint Depth(Inches)	1/2
1/4	3/8	1/2
1/4	-	-
3/8	-	-
1/2	-	-
5/8	82	-
3/4	68	51
7/8	58	44
1	51	38

#### Meters per Liter

(One liter equals approximately 3.33 cartridges)

Joint Width(MM)		Joint Depth(MM)	
	6	10	13
6	24.8	-	-
10	16.5	-	-
13	12.4	-	-
16	9.8	6.6	-
19	-	5.5	4.1
22	-	4.7	3.5
25	-	4.1	3.0

<b>Sagging</b>	No sag at 120°F (49°C)	(ASTM C 639)
<b>Cure Time</b>	The cure of Sikaflex® HY 35 varies with temperature and humidity. The following times assume 75 °F (24 °C), 50% relative humidity, and a joint 1/2" (13 mm) in width by 1/4" (6 mm) in depth.	
	Skins: within 1–3 hours	Full cure: approximately 1 week
		Full adhesion development: 10–14 days
<b>Tack Free Time</b>	< 5 hrs(Maximum 72 hrs)	(ASTM C 679)
	Tack free time to touch: 50–70min	(ASTM C 679)

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### NOTES ON INSTALLATION

- In cold weather, store the container at room temperature for at least 24 hours before use.
- Do not allow uncured Sikaflex® HY 35 to come into contact with alcohol-based materials or solvents.
- Sikaflex® HY 35 should not be applied adjacent to other uncured sealants and certain petroleum-based products.
- Sikaflex® HY 35 can adhere to other residual sealants in restoration applications. For best results, always clean the joint as advised in the Surface Preparation section of this data guide. A product field adhesion test for Sikaflex® HY 35 within the specific application is always recommended to confirm the adhesion and suitability

of the application.

- Sikaflex® HY 35 should not be used for continuous immersion in water. Contact Technical Services for recommendations.
- Do not use Sika® Primer-179 on nonporous surfaces such as aluminum, steel, vinyl, or Kynar 500-based paints. Use Sika® Primer-173 on coated metals when testing dictates.
- Lower temperatures and humidity will extend curing times.
- Sikaflex® HY 35 can be painted over after a thin film or skin forms on the surface.
- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

### SUBSTRATE PREPARATION

Substrates must be structurally sound, fully cured, dry, and clean. Substrates should be free of the following: dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials, and sealant residue.

#### Concrete, Stone, And Other Masonry

Clean by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.

## Metal

1. Remove scale, rust, and loose coatings from metal to expose a bright surface.
2. Test all coatings on metal that cannot be removed to verify the adhesion of sealant or to determine an appropriate primer.

## Wood

1. New and weathered wood must be clean, dry, and sound.
2. Scrape away loose paint to bare wood.
3. Test all coatings on wood that cannot be removed to verify the adhesion of sealant or to determine an appropriate primer.
4. For freshly treated wood; allow six months for weathering.

## Priming

- Sikaflex® HY 35 is considered a non-priming sealant, but special circumstances or substrates may require a primer.
- Porous materials subject to intermittent water immersion require priming. Use Sika® Primer-179.
- Certain architectural metal finishes may require priming with Sika® Primer-173.
- It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to the technical data guides for Sika® Primer-179 and Sika® Primer-173.
- For green concrete applications, Sika® Primer-173 must be used.
- Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Very porous surfaces may require a second coat of Sika® Primer-179; however, do not over-apply.
- Allow the primer to dry before applying Sikaflex® HY 35. Depending on temperature and humidity, the primer will be tack-free in 15–30 minutes. Priming and sealing must be done on the same workday

## APPLICATION

### Joint Preparation

1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants - The Professional's Guide.
2. In optimum conditions, the depth of the sealant should be 1/2 the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of 1/2" and the minimum depth 1/4". Refer to Joint width section.
3. In deep joints, control the sealant depth by installing Closed-Cell Backer-Rod or Soft-Cell Backer-Rod. Where

the joint depth does not permit the use of a backer rod, use a bond breaker (polyethylene strip) to prevent three-sided adhesion.

4. To maintain the recommended sealant depth, install a backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed-Cell Backer Rod should be about 1/8" larger in diameter than the width of the joint to allow for compression. Soft-Cell Backer Rod should be approximately 25% larger in diameter than the joint width. Because the sealant does not adhere to the backer rod, no separate bond breaker is required. Do not prime or puncture the backer rod.

### Application

1. Sikaflex® HY 35 comes ready to use. Apply using a professional-grade caulking gun. Do not open cartridges, sausages, or pails until preparatory work has been completed. NOTE: Sikaflex® HY 35 is not a structural sealant.
2. Fill joints from the deepest point to the surface by holding an appropriately sized nozzle against the back of the joint.
3. Dry tooling is recommended. Proper tooling results in the correct bead shape, neat joints, and optimal adhesion.
4. Best practices dictate that all caulking and sealing be done when temperatures are above 40 °F (4 °C) to avoid application to moisture-laden surfaces. Moisture on substrates will adversely affect adhesion. Application may proceed as low as 20°F (-6°C) if there is certainty that substrates are completely dry, free of frost, and clean as described under Surface Preparation.

### CLEANING OF TOOLS

1. Immediately after use, clean equipment with SikaSwell®-990 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. Remove thin films by abrading.

### LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its

subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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**Product Data Sheet**

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