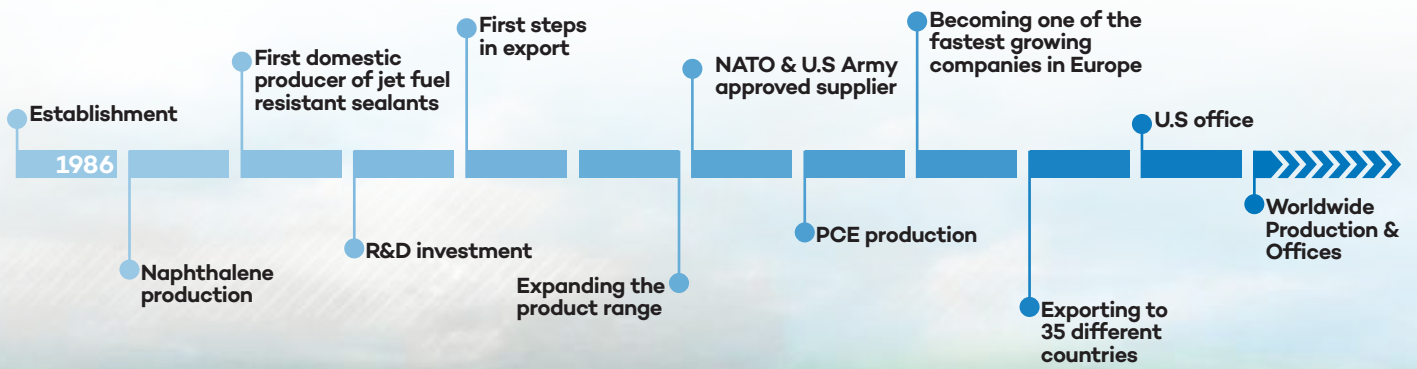


Ultra
Elastic
Ultra
Durable

StenSeal
SI 110/111

Silicone Sealants For
Airports, Highways,
Concrete & Asphalt Pavements





Our company **Stenkim**® Chemicals is a construction chemicals producer founded in **1986**. Our current product portfolio mainly consists of sealants, floorings, coatings, admixtures, concrete repair and reinforcement products, water proofing materials and polycarboxylates. The know-how and engineering skills acquired over **30 years** are utilized to design and manufacture products that match or exceed the quality of our multinational competitors. We are always designing new products and expanding our portfolio to fulfill evolving demands of the construction sector, as well as unique demands of specific construction projects. We are the first and sometimes the only domestic producer of many pioneering construction chemicals. Our dynamic structure, our devotion to continuous improvement and our determination and enthusiasm sustained our growth throughout the years.

Stenkim®'s founding idea is to design, manufacture and certify products that conform to the current standards. We

are able to achieve this goal with our expert design engineers, highly sophisticated production and R&D facilities and our homegrown technologies. The uncompromising **Stenkim**® quality is the result of meticulous quality checks at each step of the production, from acceptance of the raw materials to approval of the finished goods. Our focus on quality extends to our services as well as our products. We aim to give the best possible product experience not only to our customers but also to all people and businesses we touch.

We strive to meet aesthetic and technical demands of the contemporary construction market. We are a customer focused, employee empowered company with a high level of environmental and social sensibility. So far, we have been active in 5 continents and 35 different countries, with subsidiaries and distributors in 6 different countries. Our goal is to become one of the globally recognized brands.

It is resistant to heavy traffic conditions, jet blast and chemical contact.

StenSeal® SI 110/111

Elastic but Tough

It is ultra-elastic with low-modulus and high elongation. Designed to withstand heavy traffic conditions, jet blast and non-continuous chemical contact.

Truly Global

It is fully compliant to both American ASTM D 5893 and European EN 14188-2 standards - the only sealant on the market that meets both of these demanding standards without a compromise.

Resistant to Elements

It is highly resistant to water contact, sunlight and temperature extremes. It keeps its appearance and function over time.

Practical

It adheres to properly prepared cement concrete and asphalt joints without a primer.

Property	Test Method	Requirements	StenSeal SI 110	StenSeal SI 111
Base Polymer		Single Component Silicone	Single Component Silicone	Single Component Silicone
Solids Content %			98	98
Color			White/Gray/Black/Red/Blue	White/Gray/Black/Red/Blue
Specific Gravity			1.23 ± 0.05	1.23 ± 0.05
Sustained Extension Capability			100%	100%
Sustained Contraction Capability			50%	50%
Cure Evaluation	ASTM D5893	Pass at 21 days	Pass at 14 days	Pass at 14 days
Rheological Properties	ASTM C639, Type 1	Smooth level surface	Smooth level surface	N/A for NS sealants
Rheological Properties	ASTM D2202	< 0.30 in	N/A for SL sealants	< 0.06 in
Extrusion Rate	ASTM C1183, Type S	> 50 ml/min.	> 300 ml/min.	> 50 ml/min.
Tack Free Time	ASTM C679	5 hr. max.	< 120 minutes	< 120 minutes
Effects of Heat Aging	ASTM C792	< 10% Loss	< 6% Loss	< 6% Loss
Bond -20°F, 100% extension	ASTM D5893			
Non-Immersed		Pass 5 Cycles	Pass 5 Cycles	Pass 5 Cycles
Water Immersed		Pass 5 Cycles	Pass 5 Cycles	Pass 5 Cycles
Oven-Aged Pass		Pass 5 Cycles	Pass 5 Cycles	Pass 5 Cycles
Hardness @ -20°F	ASTM C661	< 25 Shore A	< 8 Shore A	< 12 Shore A
Hardness @ 73°F	ASTM C661	> 30 Shore OO	> 30 Shore OO	> 30 Shore OO
Flow	ASTM D5329	No flow	No flow	No flow
Rubber Properties in Tension	ASTM D412			
Ultimate Elongation		> 600%	> 600%	> 700%
Stress at 150% Elongation		< 45 psi	< 45 psi	< 45 psi
Effects of Accelerated Weathering	ASTM C793	Pass at 5000 hours	Pass at 5000 hours	Pass at 5000 hours
Resilience	ASTM D5893	> 75%	> 90%	> 90%
Adhesion and Cohesion Properties	EN 14188 - 2	No Failure	Pass	Pass
Hydrolysis Resistance	EN 14188 - 2	< 50% hardness change	Pass	Pass
Cure Time For Trafficability @73°F			1/8 inches/day	1/8 inches/day

StenSeal[®] SI 110/111 Silicone Joint Sealants

High performance silicone sealants for airports, highways, industrial facilities, food and chemical process plants

Ready to use and easy to apply

StenSeal[®] SI 111

Non-Sag silicone sealant for vertical applications.



Available in;
5 gal (18.9 l) cans,
50 gal (189 l) drums,
29 fl oz cartridges,
600 ml (20.3 fl oz)
sausages.



StenSeal[®] SI 110

Self Leveling silicone sealant for horizontal applications.

Other Jet Fuel Resistant Sealants

StenSeal[®] PU JFR

Single component, polyurethane based and self levelling. No mixing required before application. It is ready for use, saves labor during application and prevents mixing errors.

StenSeal[®] PU JFR - LV

Semi thixotropic type for slopes less than 15%.

StenSeal[®] PU JFR - NS

Thixotropic type for vertical and overhead applications.

StenSeal[®] PU JFR - LM

Low modulus and higher moving capacity.

StenSeal[®] 2PT 210

Two component, polyurethane based and self levelling. Cures chemically by mixing of the components. Curing time can be fastened or slowed if needed. Ideal for use in areas that needs to be open for traffic in short time.

StenSeal[®] 2PT 211

Thixotropic type for vertical and overhead applications.

StenSeal[®] 2PT 210 MU

Fast curing, machine applied type for extensive grounds or busy areas.

StenSeal[®] 2PT 110

Low modulus and higher moving capacity.

StenSeal[®] 2PT 310

High modulus for joints under heavy traffic.

StenSeal[®] 2PS JFR

Two component, polysulfide based and self levelling. Cures chemically by mixing of the components. It should be preferred especially in the fuel filling areas of airports, waste pools of industrial facilities or refineries where chemical resistance is important. It is highly resistant to chemicals such as fuel and solvents.



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