NEW TECHNOLOGY

REVEAL: 19 NOVEMBER 2026
HIGHWAY TECHNO FAIR 2026 · ONLINE

Towards a circular society

Paperless technology

ELIMINATE RELEASE LINER WASTE

WASTE-REDUCING PRODUCT

ASPH tape

PAPERLESS



MADE IN JAPAN

Improves waterproofing and bonding at pavement joints, helping extend pavement service life and reduce the number of repairs.

APPLICATION



LESS MATERIAL USE
Paper use: 0
90% less liner volume

PAPER CO2 AVOIDED*
Production: ~129 g/roll
Incineration: ~27 g/roll
Illustrative reference estimate

LONGER SERVICE LIFE
Better sealing & bonding
Helps reduce repairs

A CIRCULAR SOCIETY
Melted tape can be recycled
with asphalt mixtures

Assumptions: 60 mm x 20 m, 200-micron paper / 20-micron special film. Paper: 157 g/m2 (~188 g/roll). Volume: 240 to 24 cm3.
*Former paper emissions only: production 0.686 kg-CO2/kg, incineration 0.144 kg-CO2/kg (generic dry paper-waste factor).
Sources: Hapco paper guide, JPA FY2024, MOE 5.C.1. Not specific to silicone-coated paper. Special film production/disposal excluded; not a net reduction.

HIGHWAY TECHNO FAIR 2026 · OFFICIAL WEBSITE
Event information and visitor registration
https://www.express-highway.or.jp/hwtf/htf2026/

ISHIKAWA KENSETSU CO.,LTD.

ASPH tape

PAPERLESS

TEST RESULTS

High elasticity: bridge decks | Low elasticity: earthwork sections

Test item	Test conditions	Unit	Test value	High elasticity specification	Low elasticity specification	Testing organization
Thickness	High-precision digital thickness gauge	mm	3	>= 3	>= 3	In-house
Penetration	25°C	mm	5	<= 9	<= 6	Japan Road Construction Association, Road Testing Laboratory
Flow	Air conditioning: 60 ± 1°C, 5 h Test: 60 ± 1°C	mm	0.2	<= 3	<= 5	Japan Road Construction Association, Road Testing Laboratory
Ball penetration Standard: initial depth	25 ± 0.1°C	mm	1.0	0.5-1.5	-	Japan Road Construction Association, Road Testing Laboratory
Ball penetration Standard: recovery	25 ± 0.1°C	%	61.0	>= 60%	-	Japan Road Construction Association, Road Testing Laboratory
Ball penetration Aged: initial depth	Air conditioning: 90°C, 168 ± 2 h Test: 25 ± 0.1°C	mm	1.0	0.5-1.5	-	Japan Road Construction Association, Road Testing Laboratory
Ball penetration Aged: recovery	Same aging conditions as above	%	77.3	>= 60%	-	Japan Road Construction Association, Road Testing Laboratory
Extension	-10°C	mm	>= 20 High extensibility	>= 10	>= 3	Japan Road Construction Association, Road Testing Laboratory
3-point bending (reference)	Bending stress	N/mm²	1.16	-	-	Kyoto Municipal Institute of Industrial Technology and Culture
Pressurized water permeability (reference)	Pavement survey and test methods handbook B017T	cm/sec	Impermeable	-	-	Showa Testing Institute
Softening point (reference)	Pavement survey and test methods handbook	°C	94.3	95°C ± 15	95°C ± 15	Showa Testing Institute

SPECIFICATIONS & TEST NOTES

Meets the specification values for water-stop joint materials (high and low elasticity)
used by NEXCO East, Central and West Japan.
High elasticity: conforms to Tokyo Metropolitan Government bridge-deck joint material specifications.
Low elasticity: conforms to the NEXCO pavement design guidelines for water-stop joint materials.
Based on the Pavement Construction Handbook (quality of joint materials) and
NEXCO quality specifications for poured joint materials.
Pavement Survey and Test Methods Handbook (FY2019), p. [4]-448:
“Standard quality of hot-applied poured joint materials.”

Please request the SDS and quality certificate (test results) for each project.

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