

**Technical
Data Sheet**



Willamette Valley Company
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Partnering through service,
innovation, and integrity



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SPIKEFAST® ES-50 RM / RM II

Wood Tie-Plugging Material

DESCRIPTION

SPIKEFAST® ES-50-RM is specifically designed to remediate wood ties. This non-foaming, 100% solid polyurethane is specifically designed to efficiently anchor spikes with comparable strength to that of un-spiked hardwood ties. SPIKEFAST® ES-50-RM is dispensed from equipment specifically engineered for efficient metering/mixing, pressure and temperature control, and operation under wide range of outdoor conditions.

WHERE TO USE

- **Wood cross ties spike holes**—re-spike filled holes
- **Tie remediation**—bonds tightly to wood & seals out water
- **Tie defects**—penetrates cracks, voids, crevices

FEATURES AND BENEFITS

- **Quick Cure Time**—high production rates
- **Dynamic Rail Roll-Over**—equal to hardwood, 2X wood plugs
- **Lateral Resistance**—20% greater than hardwood ties
- **Easy to Apply**—minimal maintenance and clean up

PACKAGING

200 gallons (758 L), 50 gallons (190 L)
5 gallons (19 L), 15 oz. Cartridge (450 ml)

COLOR

Yellow

YIELD

150 spike holes (0.63 in. x 0.63 in. x 4 in.) per gallon.
38 spike holes (1.6 cm x 1.6 cm x 10.2 cm) per liter.

SHELF LIFE

3 months when properly stored.

STORAGE

Store in original container and sealed until ready for use.
Reseal used containers and store in an upright position.

TECHNICAL INFORMATION

Typical Properties

VOC , lbs/gal (g/L), ASTM D 2369	0
Viscosity , cps, ASTM D 4878, 77°F (25°C), Iso / Resin	200 / 4700 (RM) 200 / 2400 (RM II)
Hardness , Shore D, ASTM D 2240	80
Set time , sec, 77°F (25°C)	32 / 50—Cartridges (Temperature dependent)
Service temperature , ° F (° C)	-40 to 212 (-40 to 100)

Process Parameters

Ratio by volume , Resin to Iso	2 to 1
Meter equipment	Plural component
Static mixer	13-32
Equipment pressure , psi (MPa)	400 - 600 (2.3 - 4.1)
Equipment temperature , ° F (° C)	70 to 125 (21 to 52)
Recommended application volume , in ³ (cm ³)	2 in ³ (32.5 cm ³)

APPLICATION

Use Willamette Valley Company's metering equipment which is specifically engineered for processing SPIKEFAST® ES-50-RM to generate the proper mix ratio, pressure, and temperature.

SPIKEFAST® ES-50-RM is supplied in a ready-to-use form that requires proper mixing and dispensing. Care should be taken that SPIKEFAST® ES-50-RM is stored properly, does not become contaminated with foreign matter, and is applied according to WVCO recommendations.

Proper application is the responsibility of the user. Field visits by WVCO Representatives are for the purpose of making technical recommendations and equipment service only, and not for supervising or providing quality control.

Contact a Willamette Valley Company Representative for more information on product and equipment instructions, recommendations, and full-service warranty.

HEALTH AND SAFETY

First Aid

- Refer to Material Safety Data Sheet (MSDS) for further information.
- For emergencies, call INFOTRAC 1-800-535-5053
- In case of eye or skin contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove any contaminated clothing and shoes. Get medical attention immediately.

- In case material is released or spilled, stop leak or dike spilled material if without risk. Avoid contact with skin and clothing. Do not breathe vapor or mist. Use absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. Refer to MSDS for more details. Comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements for disposal of material.

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