

Applying Material

Problem	Cause		Solution	
Ragged line edges when extruding	Dirty screend box		CAREFULLY clean box. Discharge opening and screed box plate runners need to be free of debris.	
	Cold mate	rial temperatures	Heat material as required.	
	Marking sp	peed too fast	Slow ThermoLazer speed.	
Rough material surface when extrud-	Overheated material		Reduce heat.	
Ing	Moisture on road surface		Smooth road surface	
	Screed box	low on material	Add material to screed box.	
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Correct line application will produce a full straight line with sharp edges; correct color, thickness and width; a firm bond to the surface; and have uniform reflectivity.				
Insufficient adhesion (materia at beginning of line)	til4508a	 Material temperature too low ThermoLazer speed too fast Debris on road Surface temperature too cold 	 Raise material temperature. Decrease speed of ThermoLazer. Clear debris from road. Wait for temperature of surface to raise. 	
Rough and bumpy line	ti14509a	 Debris on surface Crust from overheated materia Debris caught in screed box Material not covering road hig spot 	 Clear debris from surface. Lower material temperature. Clean debris from screed box. Adjust screed box line thickkess. 	
Gas bubbles in line	• • • • • • • • • • • • • • • • • • •	 Moisture or solvent on surface Material is overheated 	 Remove solvent from surface. Lower temperature of material. 	
Ragged edges and gaps in lin	ti14511a	 Material temperature is too low ThermoLazer speed is too fast 	 Raise material temperature. Wait for change in ambient conditions to remove moisture. Reduce ThermoLazer speed. 	



Problem	Cause	Solution
Swollen rounded line	Material temperature is too high	Lower material temeprature.
ti14512a		
Material shadows on sides	Uneven road surface	Apply to even road surfaces.
}	 Screed box is not evenly riding on substrate 	Remove debris from screed box lever rod.
ti14513a		Inspect/replace damaged screed box lever rod/lever arm.
Line is wavy	Strong road surface camber	Apply so camber does not influ- ence application.
	Incorrect ThermoLazer operation	Use correct application methods (for example, try locking swivel wheel).
ti14514a		
Cracks in line	Cracks in road surface	Repair cracks.
ξ {	 Temperature stress from overneating 	Lower temperature in material.
	Material applied too cold	Increase material temperature.
ti14515a	Material applied too thin	• Slow ThermoLazer speed to apply thicker material.
Rough edges and lines in surface	Material temperature is too low	Raise material temperature.
	Material is overheated or scorched	Lower material temperature.
<pre>{</pre>	Moisture in road surface	Wait until road surface is dry.
ti14516a		
Jagged line ends; mterial drips	Screed box does not fully close	Clean screed box.
between lines	Debris caught in screed box	Clear debris from screed box.
	Worn screed box shear bar	Replace screed box gate.
	Worn screed box trough shear bar stop	Replace screed box trough.
ti14517a	Surface temperature too cold	Anow surface temperature to increase.