

Cool Asphalt/Cool Streets Facts and Background

1. Day of 95+ degrees will increase 2-4 times by 2040, and include many poor neighborhoods with low tree cover (Westlake, Pico-Union, Boyle Heights, Sylmar, North Hollywood, Canoga, West Adams, South L.A.).

Greg Spotts <greg.spotts@lacity.org> wrote:

In selecting neighborhoods for possible urban cooling projects, we create heat maps using the mapping tool below: https://web.tplgis.org/csc_losangeles/

We use two criteria: need for cooling, and equity.

Under these criteria, the places of greatest need tend to be the less affluent parts of the San Fernando Valley.

The west side typically doesn't score very high due to ocean breezes and high incomes.

I do think it's an interesting idea to explore installing cool pavement where the farmers market is held, potentially making it more pleasant in the summer.

2. Street pavement must be in good condition for the coating to effectively seal it.
3. The City currently buys the coating from a private vendor. Whereas, the City fabricates its own asphalt, which lowers costs.
4. A demonstration project was installed with a paved road/sidewalk section on Marquerite St. and on 4400 Kraft St. in Studio City, at 3 locations in the San Fernando Valley on 10 blocks (Canoga Park, Sun Valley and Pacoima), and a 2-block stretch in South L.A., and in Playa Vista/ Westchester.
 - a. <https://www.canyon-news.com/mayors-cool-streets-la-program-repaves-studio-city/121069>
 - b. <https://streetsla.lacity.org/marquerite-street-cool-pavement>
 - c. Installation in in Canoga Park:

Earlier this week, Councilman Bob Blumenfield launched the next phase of 'Cool Pavement' in the West Valley. Soon this cooling technology will be applied to 25 more streets in Canoga Park, lined by 280 new trees, which will help lower the heat island effect in the hottest area of our city.

Thanks to Keith Mozee and Greg Spotts from [Streets LA](#), Commissioner Aura Garcia from the [Los Angeles Board of Public Works](#) as well as our friends from Climate Resolve for your partnership on this endeavor. Together we are using infrastructure to help combat climate change.

5. The material is lighter, and reflects more sunlight and heat than dark asphalt.
6. The coating is most effective on streets with tree canopies, which further reduce heat retention and urban warming.
7. Public Works Committee hearings:

Hearing 1: Apr. 14 Public Works Cmte, Streets LA Presentation - Next Phase Urban Cooling

Item begins 1:26: <https://www.youtube.com/watch?v=gah9f0ZFePU>

Hearing 2: Public Works Committee Meeting, Streets LA proposal to award cool pavement contract to Creative Paving

Item begins 3:02:  [BPW_CoolPavementCoating_20210526 audio.m4a](#)

8. No barite nor any extra-toxic ingredients are used in the coating.

Greg Spotts <greg.spotts@lacity.org> wrote:

The cool pavement coating we are currently using is GAF Streetbond which has been used for more than a decade by the City of LA. Currently LAUSD uses it as a coating for asphalt playgrounds in schools.

The safety data sheet is available at this link:

<https://www.gaf.com/en-us/products/streetbond-sb120-pavement-coatings/documents>

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From: **Chris Spitz**

I believe "Guardtop" is the sealant manufacturer (the product that is being used in LA and was also apparently used in Arizona): <https://guardtop.com/coolseal-faq/>.

I don't see info on ingredients other than water-based asphalt or if barite is used, ie, if this is materially different from ingredients used in traditional asphalt. In Phoenix the website says that this is "compatible" to traditional asphalt.

There are also spec sheets on the Guardtop website for "Cool Seal," which they say meets LEED requirements: <https://guardtop.com/products/specifications/>

Findings and justifications:

1. The material is just as or more durable than regular asphalt/concrete material.
2. Retention of less heat reduces the urban heat island effects.

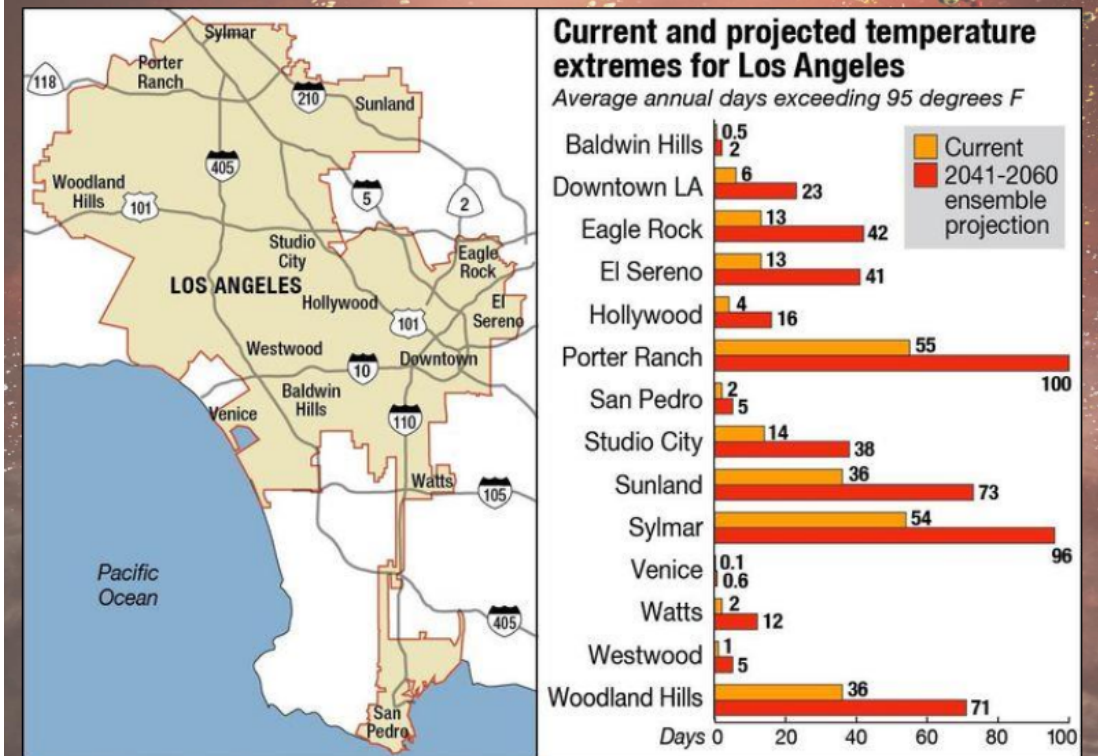
Jay Ross

Member/WLASNC representative, WRAC Mobility & Transportation Committee (MTC)

Member, West LA Sawtelle NC/Chair, WLASNC PLUM Cmtee

[See graphics on pp. 3-4, following]

LA is Hot – and Getting Hotter



Proposal Summary

CD	Neighborhood Council	Street Segments	Cool Pavement Lane Miles	Vacant Planting Sites	New Planting Sites	Total Planting Sites
01	Pico Union	24	8.5	50	69	1,898
01	Westlake South	12	2.5	18	76	
02	North Hollywood	48	13.4	405	89	
03	Canoga Park	25	7.7	285	17	
07	Sylmar	35	11.1	184	209	
08	Empowerment Congress North	31	9.9	216	55	
09	South Central	19	7.5	138	87	
14	Boyle Heights	6	TBD	TBD	TBD	
Grand Total		200	60.7	1,296	602	

