

Scottsdale slows thermal cracking with Type III Micro Surfacing on arterial and local streets at a scale never seen before.

2020 recipient of the Arizona Association of General Contractors Build Arizona Award for Pavement Preservation  
20% improvement on PCI ratings over five years

**BACKSTORY:**

The city of Scottsdale's road network is integral to their growth and success. They celebrated an 80+ PCI rating through the mid-2000's, at which point the network began to decline into about 70 PCI due to traffic and the hot desert heat.

**PROBLEM:**

In 2014, the city wanted a sustainable alternative to normal pavement treatments. The hot temperatures required a strategic approach to restore and extend the high quality of road they had come to expect. Multiple treatments needed to be considered for arterial and local streets to control the flow of traffic during the process.

“ Using innovative methods such as fiber in the Microsurface has proven to preserve the pavement life and has been a key component to our success. ”

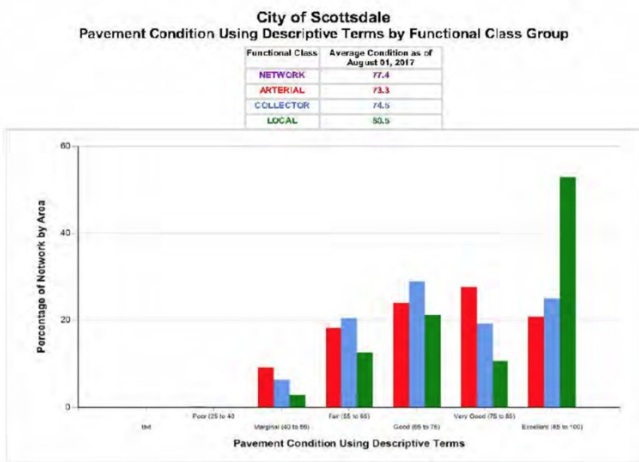
— Craig Hanson, Street Operations Manager, Street City of Scottsdale

**SOLUTION:**

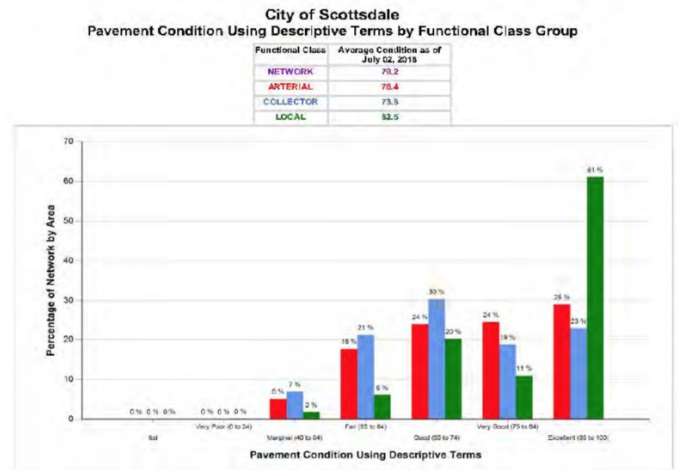
The city partnered with VSS International to enact an aggressive preservation plan, utilizing Microsurfacing with fiber reinforcements on a scale not seen anywhere else in the United States to slow thermal cracking. Type 3 treatments were executed for arterial roads, while a type 2 treatment was used for residential streets. Their roads returned to a PCI rating of 80+. The pavements continue to maintain their high quality, establishing Scottsdale as a leader in innovative pavement preservation techniques.

[Click here for additional information & 2020 ISSA award submission](#)

**PHOTOS:**



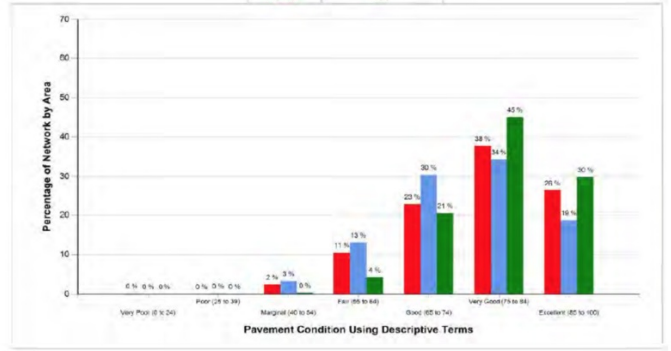
Network Condition 2017



Network Condition 2018

City of Scottsdale  
Pavement Condition Using Descriptive Terms by Functional Class Group

Functional Class	Average Condition as of January 14, 2020
NETWORK	78.8
ARTERIAL	77.3
COLLECTOR	76.3
LOCAL	80.7



Network Condition 2019



Before construction



Before construction



During Construction



During Construction



Upon Completion



Upon Completion



Upon Completion