



S-Complex™

PROJECT
EQUIPMENT
PLACE
DATE
CONTACT

S-Complex™ Trial - cutting hard quartzite
Sabre Jet XT bridge saw by Park Industries
Ultimate Stone, Elk Grove Village, IL, U.S.A
6th October 2021
Marcin Kozak, info@ultimatestone.com

THE CLIENT

Ultimate Stone is a stone fabrication plant processing natural stone, man made quartz and porcelain.

PROJECT OBJECTIVES

- 1) Trial Chemforce S-Complex™, cutting 2 types of hard quartzite – Taj Mahal and Iceberg using a Sabre Jet XT Bridge Saw.
- 2) Achieve higher cutting speed by dosing the water to the saw with a small amount of S-Complex.
- 3) Optimize the Zensis blade to maintain optimal sharpness and cleaner cuts with fewer blowouts.

CHEMFORCE™ S-Complex™ SOLUTION

The water feed to the Sabre Jet XP bridge saw was directly dosed with 0.8% S-Complex™ using a Dema inline injector dosing pump.

Increased Cutting Performance	Taj Mahal Quartzite
Typical cutting speed with fresh water	30 inches/Min
With 0.8% S-Complex™	135 inches/Min
Increase in cutting speed	x 4.5

Increased Cutting Performance	Iceberg Quartzite
Typical cutting speed with fresh water	20 inches/Min
With 0.8% S-Complex™	95 inches/Min
Increase in cutting speed	x 4.75

After the trial, Ultimate Stone used the S-Complex™ to cut a full kitchen project from Iceberg Quartzite in 12 minutes, which would usually take 1 hour.

