

Do Coatings Protect against Corrosion and Wear?

The industry has myriad spray-on, brush-on and scrape-on products to offer, the producers of which claim them to have corrosion- and wear-reducing effects. Until now, pump users have had to take a trial-&-error approach to finding out which, if any, such products actually do help. Now, in order to shed some light in the dark area of coating technology, KSB has conducted a voluminous series of pertinent tests at its materials laboratory in Pegnitz.

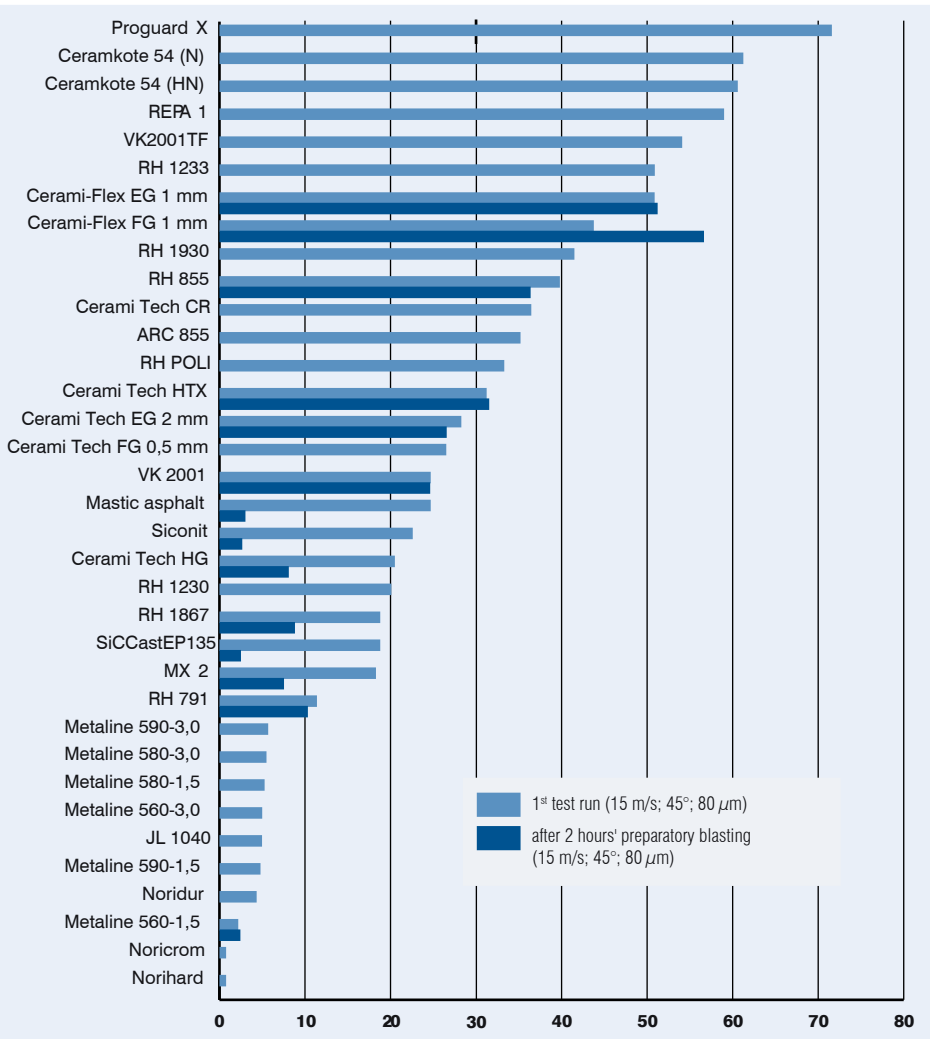


Diagram 1: Blast wear test results on coatings

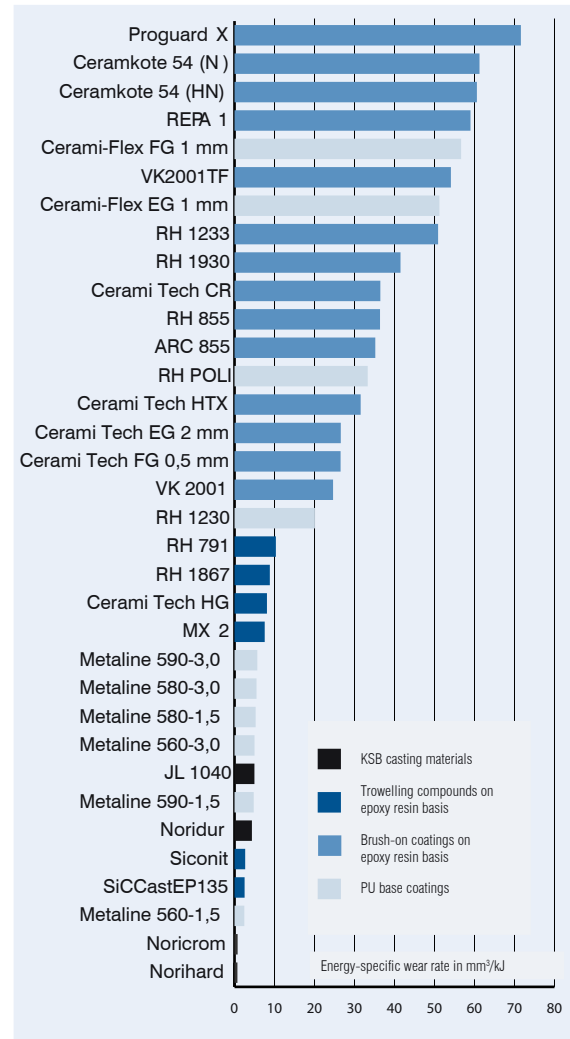


Diagram 2: Blast wear test results on coatings (15 m/s; 45°; 80 µm) (stationary values only, after 2 hours' preparatory blasting)

Table 5: Results of cavitation trials performed on various coatings

Beschichtung	Zeit bis zum Versagen / Anzahl der Proben	Bewertung
VK 2000 TF	1h / 4	poor
VK 2001	2,5 h / 2	poor
Cerami Flex EG	4 h / 2	poor
Cerami Flex HG	5h / 4	poor
Proguard X	1 h / 4	poor
Cerami Tech HG	5 h / 3	poor
Polymerguss VE 200	4,5 h / 4	poor
Metaline 560	100 h / 2	good
Metaline 590	45 h / 2	good