

NPRRC-20 Radiation Containment Encapsulant

Nuclear Power Radiation Reduction Coating



NPRRC-20 is used to encapsulate radioactive particles and reduce personnel exposure to airborne radioactive particulate during nuclear reactor cavity maintenance.

Temperature Operating Range
Apply between 40° to 170°F (4.4° to 76.6°C)

Benefits

A water based, water soluble and dilutable radioactive particulate encapsulant. This product is used to encapsulate radioactive particles and reduce personnel exposure to airborne radioactive particulate during nuclear reactor cavity maintenance.

Sonotech's NPRRC-20 can be diluted up to 10:1 with water and applied to radiation contaminated machinery and reactor cavities. It can be applied by spraying with garden or paint sprayers, by hose sprayer or by paint brush or broom.

After drying, the film that is formed effectively encapsulates radioactive particulate in place.

Sonotech's NPRRC is a low contaminant coating that in most applications does not require removal.

Removal

- Can be completely removed with a water wash or spray.

Typical chemical analysis

Nitrite, Zn, Ag, As, Bi, Cd, Cu, Ga, In, total S, P, total Cl, total F, Sb, Sn, total Br, total I <10 ppm
Pb, Hg <0.5 ppm

Na <50 ppm

Nitrate < 300 ppm

Leachable Cl, leachable F, leachable S <10 ppm

Properties

Viscosity 60,000 cps (Brookfield, Spindle E @ 1.5 RPM)
pH 6.0 – 8.0

Packaging

5-gallon / 20 liter containers (liquid)

Part number

60-NPRRC-20 5-gallon / 20 liter container



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