



CHEMICAL-RESISTANT Coating

Ceramic particle loading significantly enhances the dynamic chemical performance of the CeRam-Kote 2000NXT system. Total performance characteristics of CeRam-Kote 2000NXT, both chemical and mechanical, are significantly better than liquid epoxy, fusion-bond epoxy and other high performance coating systems.

CeRam-Kote 2000NXT protects by binding ceramic particles to a unique resin system, thus creating an **encapsulating ceramic shell**. Each ceramic particle is resin coated and becomes tightly packed in the cured film.

CeRam-Kote 2000NXT is a **tough barrier coating** for internal immersion service that is highly cross-linked to provide superior chemical resistance. The coating may be force-cured with heat for enhanced performance in extremely harsh environment.

CeRam-Kote 2000NXT's **direct-to-substrate** one-coat system translates to increased production efficiency and significantly reduced down-time, essential in industry today. CeRam-Kote 2000NXT is available in white and grey.

Suggested Uses:

- Internals in Tanks
- Hydrocarbon Service
- Harsh Chemical Environments
- Blow Out Preventers
- Petrochemical Environments
- Secondary Containment
- Clarifiers
- Non-UV Areas
- Wastewater Treatment Pumps
- Internals in Valves
- Wastewater Treatment Lift Stations
- Fuel Tanks
- Internals in Vessels and Piping
- Brine Tanks

PHYSICAL PROPERTIES

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| Autoclave: 200F, 3500 psi, 5% H ₂ S, 50% CO ₂ 5% Brine, 50/50 Toluene/Kerosene, 4 days | Pass no blistering/cracking No adhesion loss |
| Acid Immersion: 15% HCl, 150F, 24h | Pass, no adhesion loss |
| Acid Immersion: 15% HCl, 158F, 1-month | Pass, no adhesion loss |
| Adhesion (ASTM D4541, elcometer pull-off) | >16.54 Mpa (2,400 PSI) |
| Abrasion Resistance (ASTM D 4060, Tabor Test 1,000 cycles, CS 17 wheel, 1kg) | 37.3 milligrams loss |
| Flexibility (ASTM D 522, Conical Mandrel Bend at 24°C) | 11% elongation |
| Impact Strength (ASTM G 14) | 1.47 joules |
| Dielectric Strength (ASTM D 149) | 2,500 vols/mil |
| Static Coefficient of Friction (ASTM D 4518-90) | 0.187 mean static friction value |
| Salt Spray (ASTM B117 at 1000 hours) | Pass |
| Water Vapor Transmission (ASTM E96) | 0.157 grains per sq.ft per hour |
| VOC (Volatile Organic Compounds) | 89 g/litre (calculated value) |

All tests are performed by accredited laboratories; however, results for each test can vary for actual production as much as 30% on some tests.

