



TECHNICAL DATA

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CW3300 (COMBO WEAR 3300) EPOXY WEARING COMPOUND

Product Description

An epoxy-based high performance wearing compound that combines the abrasion resistance of high alumina ceramic beads with silicon carbide. CW3300 combines small and large ceramic beads with silicon carbide chips to provide the proper dispersion of the media for an extremely abrasion resistant compound.

Features

- Excellent wear and abrasion resistance.
- Excellent adhesion to metal, ceramic and concrete surfaces.
- Dry temperature resistance to 300°F.
- Designed for use on equipment exposed to abrasive materials.

Recommended Uses

- Protect, repair and rebuild; exhausters, pulverizers, ash handling systems, cyclones, pipe elbows, fans and housings, screens, chutes, hoppers, screw conveyors, slurry pumps, pneumatic conveying systems and other material handling equipment.

Chemical Resistance

Sulfuric Acid 10%	VG	Kerosene	E
Hydrochloric Acid 10%	VG	Leaded Gasoline	VG
Sodium Hydroxide	E	Water	VG
Ammonia	E	Saturated salt solution	VG
Methanol	U	Mineral Spirits	VG
Chlorinated Solvents	VG	Propylene Glycol	VG
Toluene	VG	ASTM #3 oil	VG

E = Excellent VG = Very Good U = Unsatisfactory
7 day room temperature cure, 30 day immersion @ 75°F.

Typical Properties

Solids by Volume	100%
Volatile Organic Compounds	0.0 lb/gal (0 g/l)
Theoretical Coverage	50 in ² /lb @ 1/4"
Recommend DFT	1/8" and greater
Number of Coats	1 or more
Mix Ratio (by volume)	1 Hardener : 2 Resin
Mixed Consistency	Non-sag Putty
Shelf Life @ 60-90°F (16-32°C)	Part A months Part B months
Temperature Resistance	350°F (dry)
Color	Gray

Specification Data

Compressive Strength ASTM D 695	11000 psi
Adhesive Tensile Shear ASTM D 1002	2375 psi
Cured Hardness ASTM D 2240	87 Shore D

Ordering Information

Packaging:	30 lb unit
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APPLICATION INFORMATION

CW 3300

Surface Preparation

Remove all oil, grease or other contaminants from the surface to be coated in accordance with SSPC-SP 1.

Preferred: Abrasive blast to a White Metal Blast in accordance with SSPC-SP 5 and obtain a 3-5 mil (75-125 μ) angular anchor pattern.

Optional: Power tool clean to bare metal in accordance with SSPC-SP 11 and obtain a 3-5 mil (75-125 μ) angular anchor pattern.

For equipment that will be exposed to extreme vibration or impact, it is highly recommended that expanded metal be tack-welded to the substrate and the CW 3300 trowled in and over the expanded metal. Care should be taken to insure there are no voids or air pockets.

Note: For equipment that has been handling sea water or other salt solutions a test for chloride contamination should be performed prior to application. If chlorides are present at 40 ppm or greater the substrate shall be re-cleaned until the chlorides are less than 40 ppm.

Mixing

Material is formulated to be a dense mixture that will not sag when applied on vertical, curved or overhead surfaces.

Add 1 part hardener to 2 parts resin and power mix thoroughly for about 4 minutes or until a uniform consistency is achieved, being careful to mix material from bottom and sides of the container.

When mixing large quantities of hardener and resin, use a T-shaped mixing paddle in a power drill at moderate RPM.

Thinning

DO NOT THIN

Pot Life

Material Temperature	Time
75°F (24°C)	30 - 40 minutes

Application Conditions

	Normal	Minimum	Maximum
Material	75-90°F (24-32°C)	55°F (13°C)	90°F (32°C)
Surface	75-90°F (24-32°C)	55°F (13°C)	90°F (32°C)
Ambient	75-90°F (24-32°C)	55°F (10°C)	90°F (32°C)
Humidity	30-50%	0%	85%

- Surface temperature must be 5°F (3°C) above the dew point.

Application

For best results material should be kept and applied at room temperature.

Using a putty knife or trowel, a very light coat should be applied to "wet out" the surface, allowing for a 100% contact then continue to build up to the desire thickness.

Material can be trowled to a smooth finish by using warm water or torch to warm the trowel then lightly toweling over the uncured CW 3300

Cure Time

These times are based on a 30-50% RH. Excessive film thickness, cooler temperatures or inadequate ventilation will require longer cure times and could result in premature failure.

Surface Temperature

½" @ 75°F

Working Time	30 - 40 minutes
Full cure	16 hours

- If the material has exceeded its maximum recoat time or full cure time contact ITW Futura Coatings for recommended recoating procedures.
- Curing can be accelerated by using heat after the coating has been allowed to harden under ambient conditions. At 150°F material will cure in 2-3 hours. Use a hot box, heat lamp or other heat source. Do not expose this system to a direct flame.

Safety Information

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use respirators rated for organic vapors, or in confined spaces wear fresh air respirators or fresh air hoods.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions.
- **This product is intended for industrial use by properly trained professional applicators only.**

Storage Conditions

- Coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 55-90°F (13-32°C).
- Materials **must** be kept above 55°F (13°C).

ITW FUTURA COATINGS, 1685 GALT INDUSTRIAL BLVD., ST LOUIS, MO, (314) 733-1110

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