

Technical Data Sheet

DESCRIPTION AND RECOMMENDED USES: 100% solids, **Dura-Coat Abrasion Fast 356** is a solvent free, **FAST CURING** ceramic filled coating designed particularly as a protective coating for metals in highly aggressive environments especially high wear abrasion and strong impact resistance. Excellent in a wide array of caustics and acids. **Dura-Coat Abrasion Fast 356** can be easily applied by plastic squeegee or putty knife up to 1000 mils without slump.

- It can be applied up to 1000 mils without slump
- Suitable for any substrate, steel, bronze, aluminum, concrete
- Suitable for corrosion and abrasion protection
- Designed for rebuilding worn parts



Application Areas:

- ✓ Pipe elbows
- ✓ Propellers
- ✓ Pump cases
- ✓ Impellers
- ✓ Screw conveyors
- ✓ Fans and housings
- ✓ Bins
- ✓ Coal crushers
- ✓ Chutes and hoppers
- ✓ Wear plates
- ✓ Many others

TECHNICAL DATA

Maximum Temperature (Dependent on service)	Wet Service Dry Service	70°C 93°C	158°F 200°F
Chemical Resistance	Water Alkalis Inorganic Acids Organic Acids Organic Solvents	Excellent Excellent Good Good Good	
Flexural Strength	(ASTM D 790)	560 kg/cm ² (54.2 MPa)	8,000 psi
Pull-Off Adhesion	(ASTM D 4541)	330 kg/cm ² (32.4 MPa)	4,700 psi
Tensile Strength	(ASTM D 638)	240 kg/cm ² (23.4 MPa)	3,400 psi
Shore D Durometer Hardness	(ASTM D 2240)	85	
Taber Abrasion CS-10, 1000g, 1000 Cycles	(ASTM D 4060)	35mg	
Pot life		25 MIN / KG at 72°F	
Vertical SAG Resistance at 21C (70F) and 12.7mm (500mils)		No sag	
Coverage for 10Kg kit	8.6sf @240mils	0.8m ² @6mm	
Mix Ratio	2:1 by Weight		Base: Activator
Color	Grey as standard. Blue and Red optional. Other colors contact the manufacture		
Shelf life (unopened containers)	3 Years at 55-95°F (13-35°C)		

Application Sheet

Surface Preparation

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, expected service life, and the initial substrate conditions. All sharp edges and welds shall be ground smooth or to a 3 mm (120 mil) radius. Optimum preparation will provide a surface thoroughly cleaned of all contaminants and roughened to an angular profile between 75-125 μm (3-5 mil). This is normally achieved by initial cleaning and degreasing and then abrasive blasting to a cleanliness of Near White Metal, or by mechanical preparation.

Mixing

Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by Weight 2-parts Base to 1-part Activator. Mix thoroughly to produce an even colored and streak-free material.

THINNING: Never thin.

Application

Use heavy plastic squeegee or putty knife to apply a 6mm minimum thickness. Work material into profile of substrate to achieve maximum adhesive and to remove any entrapped air. Contour to correct form with putty knife or plastic applicator. If mold or form is used be sure to coat its surface with a release agent to prevent adhesion of the material.

Application Temperature: Keep between 55 to 95°F (17 to 35°C). Substrate: keep between 45 to 105°F (7 to 40°C). the difference in temperature of the substrate and the material should never exceed 10°F, 5°C. Substrate shall be a minimum of 5°F (3°C) above dew point. Do not apply if relative humidity exceeds 90%. If necessary, heat the metal prior to surface preparation using electric heater or heat lamp. Never use gas, oil, or kerosene heaters as they will leave a greasy residue on metal surface. For best results keep all material in warm area overnight (75°F+) for ease of mixing.

Curing Schedule

	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	45min	30 min	20 min
Light Load	1 hrs.	45 min.	30 min
Overcoat End	1 hrs.	45 min	30 min
Full Load	1.5 hrs.	1 hrs.	45 min.
Full Chemical	4 hrs.	3 hrs.	2 hrs.

Clean Up

Use commercial solvents (Acetone, Xylene, Alcohol, Methyl Ethyl Ketone) to clean tools immediately after use. Once cured, the material would have to be abraded off.

Safety

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.

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