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TWIN PACK EPOXY COMPOSITE



1 Product Description

Steel Guard is a brick colored twin pack epoxy composite. It is a paste and almost putty like mixture, which is sticky and wet when mixed and contains a propriety blend of samot glass and quartz, mixed with modified epoxy resins and hardeners.

It hardens exothermically over time to form a hard lining, for industrial equipment where moderate impact and high wear resistance is required.
(Patent pending)

2 Suitable for Application on

Pump casings, cyclones, pulleys, chutes, launders, spigots, tanks, pipes, pipe bends, mixers, flotation devices and areas where abrasive wear on equipment takes place.

**3 Physical & Chemical Properties
(Typical values)**

Density: 2.2 Kg / liter

Gel time: 30 to 40 minutes at 25°C

Hardening time: 4 to 7 hours

Compressive strength: >100 Mpa

Adhesion (pull): > 30 Mpa

Impact resistance: > 15 J

Temperature resistance: 150°C maximum

Corrosive wear resistance: 10 000 h

Chemical resistance: Acids, excellent
Alkalis, excellent
Oxidizing agents, good
Solvents fair

Coëficient of friction: 0,5

Specific heat: 1000 J/kg°C

Coverage: 1m² at 6mm thickness with 12 kg

4 Typical Component

Benefits: High abrasive wear resistance, superior bonding, low peak exotherm, cost effective, BPA and urethane free. flame retarded. Easy to apply, even curing.

5 Directions for Use

Preparation: Sand blast metal with a medium fine shot . Areas must be free from oil, grease and dirt. Expanded metal can be tack welded to the surface where impact or flexing exists. Welded surface can be cleaned and roughened with a grinder.

Phosphating to 20 microns, Iron or Zinc Phosphate, of critical parts to improve adhesion is optional where practical by immersion or spray on application.

Conditions: The surface must be dry. Temperature of the substrate must be minimum of 15°C.

Application: Mix the two parts in the ratio, 9,8 parts resin to 2,2 parts hardener by weight, using a spade or a rubber or polyethylene dropper. Apply by trowel or hand in difficult to reach areas. Smooth the surface with a minimal amount of water. A water isopropanol mixture, give a shinier finish.

Typical application thickness is 3 to 25 mm depending on the component and end use.

6 Health Safety and Environment:

- Do not ingest
- Work in a well ventilated space avoiding inhalation of fumes.
- When contact is made with the skin, wash with soap and copious amounts of water.
- Store away from strong acids and oxidizing agents.
- Do not expose to open flames.
- Do not dispose of uncured epoxy resin or hardener.
- Cured epoxy can be disposed of in normal landfills.

7 Packaging:

12 kg kits consisting of 9,8 kg resin mix and 2,2 kg hardener mix, in two polyethylene containers

3 kg kits consisting of 2,45 kg resin mix and 0,55 kg hardener mix in two polyethylene containers.

SAMPLE OF PRODUCT

