

MORSEL

SOLUTIONS

for Industrial Application

Coatings
and
Linings

FOR THE LONG TERM PROTECTION OF

Tanks & Vessels
Floors

Pipes & Steel Structures

Concrete

Heat Exchanger

Cooler Tube Sheets



GLASS COATE 3021

Glass Coate polyester and vinyl ester coatings and linings provide acknowledged high performance. Glass Coate is formulated using premium quality resin reinforced with high performance glass flake, to provide a superior range of products that offer excellent chemical, abrasion and corrosion resistance with exceptionally low water Vapor .

CERAMIC SILICONE CARBIDE CSC COATE 3023

CSC Coate # 3023 is a two pack Carbide Silicon Ceramic composite epoxy coating providing outstanding abrasion and corrosion protection to a wide variety of metal, fibreglass, reinforced plastic, concrete substrates in aggressive environments

HB COATE 3025

HB Coate is solvent and water-borne coatings combined together to make a complete High Breed Coating system for application to both vertical and horizontal surfaces. It cures to form a smooth film with good resistance to a wide range of mineral and organic acids, fats, alkalis, oils and chemicals .

PERFORMANCE BENIFITS

Abrasion, erosion and impact resistant.
Fast curing even at low temperature

Highly chemical resistant

Very low permeability proven

Resistant to undercutting if damaged

Heat and thermal shock resistant

Ability to be applied in continuous high dry film thicknesses

USER BENIFITS

increased job throughput - less coats at higher dry film thicknesses and reduced overcoating intervals speeds up painting production
- opens the weather window replaces rubber, stainless steel, lead and GRP linings on-site or in-shop application fills pits and voids in corroded steel long maintenance-free life less down time

PROVEN QUALITY . LEADING TECHNOLOGY

Glass Coate #3021 is a fast curing, technologically advanced hybrid epoxy reinforced with glass flake. Specifically designed to handle the harsh environments in the industries, including all petroleum crude, Glass Coate provides good flexibility and improved elasticity for lining application on steel or concrete immersion surfaces that experience thermal or mechanical expansion and contraction.

TECHNICAL INFORMATION

Color Amber White Volume Solids: 100%
Flash Point: >50 °C Hardness (Shore D min.): 75-80
Recommended Thickness : 50+ mils DFT
Temperature Resistance: Dry Heat: 150 °C
VOC: zero VOC's Pot Life (@30 °C): 30 minutes

Abrasion resistance: Excellent
Adhesion: Excellent >20 N/mm2 (ISO 4624)

Film thickness per coat 900µm
COVERAGE 1.2 sq.mtr per Kg

TYPICAL USE Steel and concrete areas of any size in the this 50+ mil coating meets requirements as a reinforced coating and allows the next internal inspection interval to be set at the maximum time allowable

CSC Coate #3023 is a two pack silicon carbide ceramic composite novolac lining material providing outstanding abrasion and corrosion protection to a wide variety of metal, fibre glass, reinforced plastic, concrete substrates in aggressive environments.

TECHNICAL INFORMATION

Colour: : Grey Volume Solids: 100%
Flash Point: > 50 °C Hardness (Shore D min.): 75-80
Recommended Thickness : 50+ mils DFT
Temperature Resistance : Dry Heat: 149 °C

VOC: zero VOC's Potlife (30 °C): 15 minutes
Abrasion resistance: Excellent

Adhesion: Excellent >20 N/mm2 (ISO 4624)
Specific Gravity (Mix): 1,688

Film thickness per coat : Theoretical spreading rate 1 m2/ Kg
Dry Wet

1000µm 1000µm
DRYING TIME: at 25 °C 1 hours

Mixing Ratio by weight: 11,5 : 1, by volume 7,0 : 1
Potlife (30 °C): 15 minutes

Thinner: Morsel Thinners may be used for clean up

BENEFITS- Zero VOC's- Resists wide range of chemicals and solvents - Excellent adhesion- Thick-film, single coat application - Excellent abrasion resistance- Fast curing (Immersion service in 9-11 hours #3023 only) - Impact resistance - High temp stability - Cathodic disbondment resistance - Thermal & mechanical shock resistance

SURFACE PREPARATION: Grit blasting to minimum Sa 2,5 (ISO 8501-1). Surface to have a good profile with a roughness of 50-80µm.

APPLICATION Procedure: Brush or Spatula .

CONDITION DURING APPLICATION: The temperature of the substrate should be minimum 10 °C above the dew point of the air. Relative humidity should be below 85%.

Number of Coats: The product may be applied in thicker layers to suit application

Packing : 1 Kg

HB Coate #3025 is solvent and water-borne coatings combined together to make a complete High Breid system for application to both vertical and horizontal surfaces. It cures to form a smooth film with good resistance to a wide range of mineral and organic acids, fats, alkalis, oils and chemicals .

Morsel HB Coate compromises of :- Morsel epoxy primer + Morsel 3025 SB acrylic topcoat

Technical Information : Color : Primer White Top Coat: White/Gray/Light Blue Coating thickness (finish coats including primer coat)
Micron 600 – 700 Elongation at break % > 500% Tensile strength Adhesion N/mm2 > 3 (concrete failure) Abrasion

resistance: Excellent Coverage in m2/kg of mix quantity Primer: (Two coat) 8 - 10

Top Coat: 3025 HB Coating (Two coats) 2.00

Packing 7 Kg (Primer 2 Kg +Top Coat 5 Kg)

HB Coate #3027 compromises of :- Morsel epoxy primer + Morsel CS 3027 (Ceramic Base)

Technical Information : Color : Primer White Top Coat: Gray Coating thickness (finish coats including primer coat)
Micron 600 – 700 Elongation at break % > 500% Tensile strength Adhesion N/mm2 > 3 (concrete failure) Abrasion

resistance: Excellent Coverage in m2/kg of mix quantity Primer: epoxy primer (Two coat) 2- 4

Top Coat: 3027 HB Coating (Two coats) 1-2

Packing 2 Kg (Primer 1 Kg +Top Coat 1 Kg)

Morsel Other Coatings:

CRC 3011: A two component coating available in different colors for coating applications. It cures to form a smooth chemical resistant coating with **Extra Glossy Finish as Top Coat**

CRC 3013 : is designed to protect equipment surface against extreme corrosion caused by chemical exposure. Chemical Resistant Coating forms a glossy, low friction surface that protects against turbulence and cavitations under typical service temperatures of -30 to +80°C

CR 3015: A high performance, two-component barrier coating with outstanding resistance to a broad range of chemicals, especially acids and alkalis. The system, which isolates concrete and metal substrates from deteriorating chemical environments.

IMG 3016 : A two component system applied by brush or spray for protection of metallic and nonmetallic surfaces operating under immersion conditions in contact with aqueous solutions.

CS 3017 : A two-component non-machine able grade material based on a silicon-steel alloy blended within high molecular weight reactive polymers and ligomers. The system is designed for resurfacing metals and offers protection against the effects of erosion-corrosion in fluid flow systems.

CS 3027 : A two-component non-machine able grade material based on a silicon-steel alloy blended within high molecular weight reactive polymers and ligomers. The system is designed for resurfacing metals and offers protection against the effects of erosion-corrosion in fluid flow systems. **Specially developed for improving Energy Efficiency in different Pumps**

Morsel Enggtech Pvt. Ltd, Ganeshan Complex,146, Gumanpura Kotri Road Kota 324007 Rajasthan. INDIA
324007 . Phone :0744- 2390292,2391392 Fax 2391392 Email :morsel @ rediffmail .com