BCI BUILDING CHEMISTRY INDUSTRY

BC Line GRP White

Product Description:

BC Line GRP primer is a Vinyl Ester based primer fis a three-pack, high chemical resistant vinyl ester based primr , with inert fillers and fibreglass reinforcement for use under BC Line GRP systm
Suitable for properly prepared carbon steel and concrete substrates in atmospheric and immersed environments
It is designed for use in the internal lining of chemical storage tanks and pipes, and for structural steelwork in environments where superior resistance to chemical attack is required. Excellent resistance in both aliphatic and aromatic organic solvents, and concentrated organic and inorganic acids

Colour : White
Gloss Level : Semi gloss
Volume Solids, % : 100 % Reactive(~ 85 % of contents are convertible to solid)
Specific Gravity : 1.05 kg/l (Mixed)
Flash point : Base: 33°C Hardener: 57°C Mix: 33°C
VOC :425 g/L (EPA Method 24)
Basecoat (Base + Talcum Powder)
One layer at 150 - 300 µm dry film (176 - 353 µm wet film)
Theoretical coverage of 0.40 kg/m2 at 300 µm DFT
Laminate (Base saturated reinforced mat)
Two layers chopped strand mat at 1600 - 1800 µm dry film (1882 - 2117 µm wet film)
Theoretical coverage of 2.20 kg/m2 at 1800 µm DFT
A glassfiber surface mat with Base at 150 – 200 µm dry film (176 - 235 µm wet film)
Theoretical coverage of 0.30 kg/m2 at 200 µm DFT
Topcoat (Base only)
One or two layers at 88 - 117 µm dry film each (88 - 117 µm wet film each)

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ISO 9001 QSCert | OHSAS 18001 QSCert | ISO 14001 QSCert

Abrasive Blast Cleaning:

Abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007) or SSPC-SP6.
For optimum performance, blast cleaned to SSPC-SP10 with a surface profile of 75– 100 microns (3 – 4 mils).
If oxidation has occurred between the blasting and application of this product, the surface should be re-blasted to the specified visual standard
Surface defect revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.
Concrete
Abrasive blasting or scarification to remove laitance and surface contaminants is recommended
Concrete must be thoroughly cured and dry at time of application
It must be free of oils, curing solutions, dust and mold release agents
Use ASTM D 4263 (plastic sheet test method) to ensure concrete is moisture free
If moisture is detected, re-test until dry.
The coating may be used on other substrates.
Avoid paint application when the temperature is below 10°C and relative humidity is above 80%.
The temperature of surface must be minimum 3°C above dew point of surrounding air.
When surface temperatures exceed 35°C, BC Line GRP should be overcoated as soon as hard-dry to avoid intercoat adhesion problems.

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ISO QSCert 9001 OHSAS QSCert 18001 ISO QSCert 14001

Application Guide:

Mixing Ratio : Base : Accelerator : Hardener = 100 : 0.4 : 1.8 (by weight)
Base and Accelerator should be mixed thoroughly before adding Hardener
Pot Life : 25°C 35°C
30 minutes 20 minutes
(Pot life will vary substantially with temperature)
Thinner : Do not thin
Cleaner : BC Line GRP thinner (Vinyl Ester Thinner)

Curing profile
Drying Time : Substrate Temperature 25 °C 35 °C
Surface Dry 1 hour 15 min 1 hour
Through Dry 4 hours 3 hours
Cured * 7 days 7 days
Dry to recoat (min)* 4 hours 3 hours
Dry to recoat (max)* 7 days 7 days

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The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, A complete system can be described on a system sheet, where all parameters and special conditions could be included.

The following paint system is recommended for BC Line GRP Vinyl Ester Lining:

Primer:
Not required , shall be top coated with BC Line GRP range of products
Shelf life : Base : 6 months (25°C)
Accelerator : 6 months (25°C)
Hardener : 6 months (25°C)

Subject to re-inspection thereafter. Higher temperature during storage may reduce the shelf life and may lead to gelling in the tin Frequent temperature cycles may also shorten the shelf life. Store in tightly closed container in a dry, cool and well ventilated space, keep away from sources of heat and ignition Recommended storage temperature range is 10°C - 15°C to prolong shelf life for Base only

Packaging:

Base 20 kg
Accelerator 0.08 kg
Hardener : 0.36 Kgs

Storage:

Refer to the safety information display on the container and in the safety data sheet before using the product

The accelerator should never be mixed directly with a peroxide catalyst(such as MEKP, BPO, etc). Mixing would cause a violent reaction, and a fire or explosion could result.