FIDSTRONG
Luckfid Industry Co., Ltd

PRODUCT DATA SHEET

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FSE323H

HIGH THIXOTROPY, HIGH STRENGTH, IMPREGNATING ADHESIVE FOR CARBON FIBER FABRIC SYSTEM

DESCRIPTION

FSE323H is used for impregnating carbon fibers and bonding carbon fiber fabric to concrete surfaces.

CHARACTERISTICS / ADVANTAGES

- High thixotropy, no sagging during overhead application
- Unique adhesive formula with superior penetration performance
- Easy to mix
- Moisture tolerant before, during, and after curing
- High strength and modulus adhesive
- Excellent adhesion to concrete, masonry, metals, wood, and most structural materials
- High creep resistance
- Abrasion and shock resistant
- Solvent-free and VOC-compliant
- High temperature resistance
- Long pot life and open time

APPROVALS / STANDARDS

- Complies with relevant international standards for carbon fiber strengthening systems.

PRODUCT INFORMATION

Color	component A: light brown component B: gray mixed: gray
Packaging	22.5kg (component A) and 7.5kg (component B) per kit.
Shelf Life	18 months in original, unopened packaging.
Storage	Store in a dry place and without direct sunlight at a temperature between 4℃ and 32℃

TECHNICAL INFORMATION

Mix Ratio	A:B =3:1 by weight
Service Temperature	-5 °C min. / + 40°C max.
Operable Time	60 minutes

Touch Dry Time (25°C)	4 hours
Curing Time (25°C)	7 days
Thixotropic Index	min. 3.0
Distortion Temperature	min. 65℃
Non-volatile Matter Content	min. 99.5 %
Tensile Strength (ASTM D638)	53Mpa
Tensile Elastic Modulus (ASTM D638)	4.0GPa
Elongation at Break (ASTM D638)	2.3%
Flexural Strength (ASTM D790)	80 MPa
Compressive strength	90 MPa
Steel-steel Adhesive Tensile Strength	44 Mpa min.
Steel-steel Tensile Shear Strength	20 Mpa min.
Steel - steel T Impact stripping length	2mm max.
Pulling Bonding Strength along with Concrete	2.5 Mpa min.
Steel-concrete Tensile	C60 concrete damage
Consumption for 300GSM	0.8-1.0 kg/sqm
Consumption for 600GSM	1.1-1.3kg/sqm
Wet and Heat Ageing	shear strength decrease rate: 12% max.
Heat Aging Resistance	shear strength decrease rate: 5% max.
Freezing & Thawing	shear strength decrease rate: 5% max.
Fatigue Stress	2×10^6 times continuous sine wave fatigue loads, no specimen destroys.
Stress Resistance	no steel - steel tensile shear specimens destroy, creep deformation value: 0.4 mm max..
Salt Resistance	strength decrease rate: 5% max., no cracks or come unglued.
Alkaline Resistance	no strength decrease.
Acid Resistance	no cracks or degumming.

HEALTH & SAFETY INFORMATION

- Refer to the most recent Safety Data Sheet for safe handling, storage, and disposal of the product.

LEGAL NOTES

- The Information and recommendations relating to the application and end-use of FIDSTRONG products, are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing

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