CI/SfB
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CAW J31
Uniclass L6813:P7112

Technical Data Sheet

CP820 AlphaGuard® BIO Top Coat

BIO-BASED POLYURETHANE TOP COAT

TREMCO
Lasting Performance

KEY BENEFITS SUMMARY

- Bio Content
  - High bio content makes product sustainable and environmentally friendly
- Reflective Top Coat
  - Lower surface temperature
  - Potential Energy Savings
- Catalysed Cure
  - Results in faster cure times than similar one-component products
- Versatile
  - Suitable for use over many substrates/ roof types
- High Solids
  - 100% solids
- Low VOC
  - Low odour
  - Meets California VOC limits
- Chemical Resistant
  - Resistant to a wide variety of harmful chemicals

PRODUCT INFORMATION

Description
CP820 is a two-part, bio-based, polyurethane roof coating.

Usage / Purpose
The AlphaGuard BIO System can be used in a variety of refurbishment and new construction projects, including: warm roof, inverted roof and vegetative roof systems. CP820 is used as a surfacing over CP720 and reinforcement.

Packaging
Part A - 18.9 litre pail containing 8.3 litres
Part B - 3.8 litre pail containing 3.4 litres
Each Part A & Part B kit yields 11.7 litres

Colour
Dark Grey (RAL 7031)

Availability
Direct from tremco illbruck (see bottom of leaflet for address and telephone details).

Protective Equipment
USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Preparation
- CP720 must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris.
- CP720 should be top-coated within 72 hours of base coat application.

Mixing
- Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.
- Mix Part A for 1 minute before adding Part B.
- After adding Part B mix the combined materials for a minimum of 2 minutes moving the mix blade from top to bottom.
- Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. Never fully invert empty pails in attempt to drain material - will result in non-curing material.
- Do not break down kits into smaller quantities - MIX ENTIRE KIT.

Application Method
- Brush/roller/squeegee

Application Instructions
Repairs
- If AlphaGuard BIO is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system. Allow suggested cure time of repairs before applying AlphaGuard BIO to the roof surface.

Non-Skid Application
- In areas where a slip-resistant surface is required, 20 - 40 mesh silica sand can be broadcast at 0.5 - 0.7 kg/m² such as CP508 or similar approved by tremco illbruck, and back-rolled in an additional layer of CP820.

Acceptable Roof Surfaces
- Properly applied and cured CP720 and reinforcement.

Cleaning
Before the product cures, clean surfaces and equipment with isopropyl alcohol.

Please Note
- Do not apply when ambient temperatures are below 7°C.
- Do not apply when overnight temperature drops below 4°C.
- Do not adhere to expanded polystyrene or extruded polystyrene.
- Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks.
- Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and silicone-based coatings and sealants.

Health & Safety Precautions
Safety data sheet must be read and understood before use.

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Technical Service

tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.
tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

TECHNICAL DATA

PROPERTY	RESULT
Composition	Two-part, bio-based, polyurethane
External Fire Performance (CEN/TS 16459:2013)	Within the Broof (T4) classification *CP720 AlphaGuard BIO Base Coat &* *CP820 AlphaGuard BIO Top Coat tested together as a system*
Tensile Strength (ASTM D412)	9.7 MPa
Water Vapor Transmission (ASTM E96)	0.13 metric perms
Low Temperature Flexibility (ASTM D522)	Pass at -31.7°C (12.7 mm mandrel bend)
Tear Strength (ASTM D5147)	140 kg
Water Absorption (ASTM D471)	0.008
Indentation Hardness (ASTM D2240)	81 Shore A
Dimensional Stability (ASTM D5147)	< 0.1%
Reflectivity (ASTM C1549)	84%
Emissivity (ASTM C1371)	87%
Solar Refective Index (ASTM E1980)	105
Volume Solids (ASTM D 2697)	100%
Weight Solids (ASTM D 1644)	100%
Viscosity (ASTM D 2196)	2,500 - 5,500 cp (mPas)
Pot Life (25°C/50% RH)	20 - 25 minutes Temperature dependent - Increasing temperature reduces expected pot-life
Skin Time (25°C/50% RH)	3 - 4 hours
Over-Coat Time (25°C/50% RH)	6 - 7 hours
Coverage	Top Coat: 0.8 l/m² Non-Skid Coat: 0.6 l/m²
Storage	Store in dry shaded conditions between +15°C and +26°C and low humidity. Storage temperatures must not exceed 43°C. Do not store in direct sunlight.
Shelf Life	12 months when stored as recommended in original unopened packaging

tremco illbruck - A Company approved to:

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