

FLEXITUFF[®] CG-1

Two component caulking gun grade polyurea

PC 395

- FEATURES**
- FAST CURE
 - HIGH TENSILE STRENGTH
 - EXCELLENT ELONGATION
 - 100% SOLIDS
 - IDEAL FOR PATCH REPAIR

USES FLEXITUFF[®] CG-1 is a two component, 1:1 ratio cartridge packed polyurea. This fast cure, 100% solids, polyurea elastomer is ideal for filling cracks and defects in areas subjected to movement, abrasion and corrosion. FLEXITUFF[®] CG-1 provides a high level of protection against wear and tear. Polyurea's elongation properties have proven effective in filling control joints and around steel/concrete joints to prevent moisture ingress.

FLEXITUFF[®] CG-1 is ideally suited for patch repair of existing polyurea linings within the industrial and mining sector such as hopper cars, conveyers, and slurry tanks. It is also suitable for use in waste treatment plants.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Will discolour and chalk when exposed to sunlight. Neither colour change nor chalking detracts from the protective properties of the product.	SOLVENTS	Poor, not recommended for areas subject to splash and spillage of aromatic hydrocarbon solvents, esters, ketones or alcohols
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to immersion in fresh and salt water
SALTS	Unaffected by splash and spillage of neutral and alkaline salt solutions	ALKALIS	Suitable for splash and spillage of strong alkalis
ACIDS	Suitable for splash and spillage of mild inorganic acids		

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Pure polyurea elastomer	APPLICATION CONDITIONS	
FINISH	Semi Gloss		Min Max
COLOUR	Light Grey	Air Temp.	10°C 50°C
		Substrate Temp.	10°C 50°C
		Relative Humidity	85%
		Concrete Moisture	<10%
COMPONENTS	Two	SUITABLE SUBSTRATES	Suitably primed steel, aluminum or concrete
VOLUME SOLIDS	100%	PRIMERS	Specified Dulux [®] Protective Coatings range of primers
VOC LEVEL	<10 g/L	TOPCOATS	Not applicable
FLASH POINT	>150°C	APPLICATION METHODS	Dual cartridge caulking gun
THINNER	Do not thin		
PRODUCT CODE	N95-H0232 Grey		

DRYING CHARACTERISTICS AT 2,000 µm DRY FILM THICKNESS

Temperature	Humidity	Touch	Handle	Full Cure*	OVERCOAT	
					Min	Max
25° C	50%	4 Minutes	4 Hours	24 Hours	See Page 2	See Page 2

These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

* At this time the product can be put into service, however it will continue to cure after this period and will reach full performance in 7 – 10 days.

SPREADING RATE ASSUMING NO LOSSES

When filling a crevice 8mm wide x 2mm deep a 600ml kit of Flexituff[®] CG-1 will fill up to 37.5 lineal metres.

NOTE: Practical usage will vary depending on ambient conditions and surface roughness.

FLEXITUFF® CG-1

SURFACE PREPARATION	Specifiers should follow the surface preparation guidelines from the data sheet for the primer or first coat selected. The surface must be clean, sound and free from moisture, grease, oil, dirt, rust, loose paint, and other contaminants and abraded to provide a suitable key for the coating system. If application of the second coat has exceeded the recoat window of the first coat (refer to data sheet) then the entire surface MUST be abraded to maximize adhesion.
APPLICATION	This system requires a special application dispenser gun available from Dulux® Protective Coatings.
CARTRIDGE MIX	Remove the red retaining nut from the cartridge and take out the plug from each cylinder, if whole kit is not used up, ensure plugs do not get mixed up. Attach the static mixer nozzle to the cartridge with the nut and tighten firmly. Load the cartridge into the dispensing gun and extrude a small amount until a uniform grey streak free consistency is achieved. Put the mixing nozzle into the area to be filled and dispense the required amount. If required, it can be made smooth with a trowel immediately afterwards. Clean all equipment immediately after use with Glysol DPM. Do not reuse the static mixing nozzle. The cartridge may be resealed with the original plugs for future use. Do not mix the plugs from A to B. Once opened, use cartridge within 48 hours.
PRECAUTIONS	This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux® Protective Coatings Consultant for advice prior to filling. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux® Australia. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. The resin has a nominal storage life of 12 months at a recommend factory temperature of 20-25°C. If cartridge is opened and partially used, it should be resealed immediately with the original plugs and use cartridge within 48 hours. The cartridge MUST NOT be open until immediately before use and be kept properly under normal factory conditions. Concrete tanks will need to be emptied in advance of the filler being applied to allow the moisture content of the concrete to fall below the maximum of 10%. Do not apply over water proofing compounds. The filler MUST be fully cured prior to being placed under immersion conditions.
CLEAN UP	Glysol DPM may be used for general clean up of equipment immediately after use.
OVERCOATING	Within 24 hour of application, the surface should be washed with MEK. After 24 hours the surface must be abraded with 60 grit paper. Flexituff CG-1 is a highly flexible system. It is recommended that it is only overcoated with itself or other similarly flexible systems. Do not overcoat with rigid systems such as epoxies.
SAFETY PRECAUTIONS	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au
STORAGE	Store in well ventilated bunded area under cover and away from sources of heat. Keep containers closed at all times.
HANDLING	As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.
USING	Use with good ventilation and avoid inhalation of fumes. If risk of inhalation of fumes exists, wear combined organic vapour/particulate respirator.
FLAMMABILITY	This product is not flammable. On burning will emit toxic fumes.
WELDING	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

TEST RESULTS

TEST	TEST METHOD	RESULT
Tensile Strength	ASTM D412-92	8 MPa
Elongation @ 24°C	ASTM D412-92	300%
Tear Strength	ASTM D624-86	60 N/mm
Hardness	ASTM D2240-91	90 Shore A 50 Shore D

COMPANY INFORMATION

Dulux Protective Coatings a division of

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PACKAGING, TRANSPORT AND STORAGE

PACKAGING Available 600ml cartridge pack

TRANSPORTATION WEIGHT 1.06 kg/litre (Average of components)

DAANGEROUS GOODS Part A: Non Dangerous Good
Part B: Class 9 UN 3082

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