



# DUROSEAL HYPERFLEX 25

## Low Modulus Isocyanate Free Polyurethane Sealant

### DESCRIPTION

Duroseal Hyperflex 25 is a Low Modulus, Hybrid Polyurethane, flexible joint sealant and adhesive that is free of Isocyanates and other hazardous raw materials and omits low odour. Duroseal has been formulated to offer outstanding adhesion to most common building and automotive materials; such as Aluminium, timber, concrete, fibreglass and be used in most sealing and joint filling applications.

Duroseal displays high joint movement capability with no sagging or slump characteristics to provide a high quality & efficient joint finish.

Duroseal Hyperflex 25 complies with ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G, A and O



### APPLICATION

- ♦ Construction Joint Sealant applications
- ♦ Perimeter seal around doors, windows and facades
- ♦ General purpose interior joint sealant applications.
- ♦ Sealing and Bonding metal roofing systems.
- ♦ Automotive and marine applications requiring a flexible adhesion profile between substrates.



### MATERIALS

- ♦ Precast Concrete Panels
- ♦ Fibre Cement Sheet
- ♦ Block work & Bricks.
- ♦ Aluminium Profiles.
- ♦ Sandstone & Granite
- ♦ Fibreglass
- ♦ Plasterboard & Blue Board.

### SURFACE PREPERATION

Surfaces to be bonded must be clean and dry, as well as free of wax, grease, dust and any other foreign materials so that the adhesive bond is not compromised. metal substrates should be degreased with Duro Pro Clean Contact Adhesive Cleaner.

### Features

- ♦ Joint Movement +/- 25%
- ♦ Non Slump
- ♦ Solvent & Isocyanate Free
- ♦ Low Odour & Non Corrosive
- ♦ Paintable

## PACKAGING

Duroseal Hyperflex 25 is packaged in Grey 600ml Sausages

## TYPICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
Appearance	Thixotropic, Non Sag paste	
Curing Method	Moisture Curing	
Movement Capability	+/- 25%	
Elongation @ Break	Approx. 300%	
Skinning Time	Approx. 35 mins @ 25°C, 50% Relative Humidity	
Tack Free Time	64 minutes	ASTM C 679-87
Rate of Cure	2.5mm per 24 hours	
Full Cure		
Shore A. Hardness	30	ASTM C 661
Specific Gravity	1.6 grams/ml	DIN 52451-A
Tensile Strength	0.7 N/mm <sup>2</sup>	
Service Temperature	-40°C to +90°C	
Application Temperature	+5°C to +50°C	
VOC Rating	34 gm/L (3.4%)	
Note : All data provided is based on 25°C and 50% Humidity Conditions & fully cured after 21 days		

## PRIMING

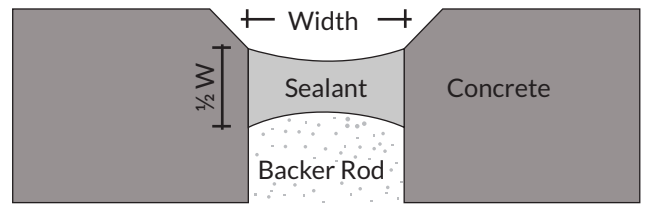
It is advisable to conduct preliminary adhesion tests on substrates where the application is critical or if the adhesion performance is unknown. The use of Duro Primer 1 is recommended for Non Porous Substrates such as metal, aluminium, glass and plastics.

## APPLICATION INSTRUCTIONS

Cut nozzle at a sharp angle slightly wider than the desired Bead or joint width. If being installed as a joint sealant, always use a suitable backing rod to ensure the correct depth is achieved. The Joint depth should be half of the joint width. Extrude sealant with a gun and tool with a round spatula within 10 minutes to spread the sealant against the joint surfaces.

## JOINT DESIGN

- ◆ To allow the sealant to move effectively, the correct joint design requires that the sealant depth must be half of the width of the joint.
- ◆ A suitable closed cell must be used to ensure that the correct joint depth is achieved.



## SHELF LIFE & STORAGE

9 months shelf when stored in a dry environment and between +5°C and +25°C.

## SAFETY DIRECTIONS

Use in well-ventilated areas, and avoid breathing vapours. In case of eye contact immediately flush with water for 15 minutes and seek medical advice.  
Avoid contact with skin or clothing

Keep out of reach of children. In use, please ensure that Occupational Health and Safety requirements are observed.

**Eyes:** Irrigate with water for 10 minutes and see doctor.

**Skin:** Wash off with warm water and soap.

IF swallowed, give plenty of water. Do not induce vomiting. Seek medical attention.

## CURING

Cure speed is dependent upon the temperature, humidity, depth of sealant and substrate. Typically, a joint will form a firm skin in one hour and take up to seven days to fully cure. In cold or very humid climates, the cure time may extend beyond seven days.

## LIMITATIONS

Duroseal Hyperflex 25 will bond to most common construction substrates, however an adhesion tests on samples substrates should be conducted to ensure adequate adhesion in the finished application.

In waterproofing applications, Duroseal Hyperflex 25 should be left to cure for a minimum of 8 hours prior to being covered by any membrane / sealer system.

Tests should be conducted to ensure that there are no adverse reactions between Duroseal Hyperflex 25 and membrane coating system.



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The information provided in this data sheet is correct at the time of printing (albeit is subject to change at any time) and is intended to give a simple description of the product and its capabilities. In practice, the substrate, intended surface to be treated and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and to ensure that the product is not used beyond its physical limitations. If in doubt contact the manufacturer. The product will perform as described herein provided it is applied in accordance with the manufacturer's instructions as stated in this data sheet and provided that the building and installation is structurally sound and the application is carried out competently. Durotech terms and conditions of sale apply.