PRODUCT DATA SHEET

DUROSEAL™ HYBRID 25C

ADVANCED ONE COMPONENT HYBRID POLYMER SEALANT

DUROTECH
Commercial Waterproofing & Sealants

DESCRIPTION

DUROSEAL™ HYBRID 25C is a one component advanced hybrid polymer, gun - grade, non - sag, moisture - cure sealant. This high performance product is designed with outstanding UV resistance and long term durability.

FEATURES

- Paintable
- Excellent adhesion without priming
- Highly resistant to sea water, diluted acids and alkalis
- Odour less UV resistant/fast curing
- Low VOC

USEA AREAS

- Sealant is designed to seal construction joints in concrete, pre-cast and brick surfaces
- To seal waterproof rivet seams and roof rails
- To seal perimeter joints around windows and doors
- Sealing door hinges, skylights and potholes
- Sealing Air conditioning equipment, flashing and gutters
- Sealing corner moldings, fabricated roof-lap seams, bumper assemblies and body-to-cab joints in motor homes

ADVANTAGES

- Accommodates 25% joint movement
- Permanently flexible, excellent weather ability
- Easy to gun and tool
- Cures to a tough, durable, elastic consistency with excellent cut and tear resistance
- Non-sticky after cure

TECHNICAL INFORMATION

Physical Properties	Test Method	Typical Value
Composition		Hybrid Polymer
Curing Type		Moisture Cured
Skin Time @ 25°C minutes		20 min
Tack Free Time @ 25°C minutes	ASTM C 679	40 min
Cure Rate mm/ day @RT		2mm/24h
Specific Gravity	ASTM D1475	1.45g/mL
Service Temperature		-20°C to +80°C
Application Temperature		+5°C to +40°C
Joint Movement Capability, %	ASTM C 920	+\-25%
Shore A Hardness	ASTM D2240	30
Tensile Strength	ASTM D412	1.3
Elongation at Break	ASTM D412	>350%

PACKAGING

600ml sausages.

COLOURS

- White
- Off-white
- Beige
- Black
- Light Brown
- Bronze
- Redwood
- Epping Grey
- Concrete Grey
- Sandstone
- Onyx Grey

AUSTRALIAN MADE SINCE 1977

SINCE 1977
Trialled • Tested • Approved

EXPANSION JOINT DESIGN

DUROSEAL™ HYBRID 25C may be used in any joint designed in accordance with accepted architectural engineering practices. Joint width should be at least 4 times anticipated movement, and not less than (5mm). While applied on an expansion joint the depth (D) of the sealant should be equal to the width (W) of the joints that are less than 10mm wide. For wider joints, width to depth ratio should be 2: 1. The maximum width of the joint on which DUROSEAL™ HYBRID 25C can be applied is 25mm.

JOINT BACKING

Closed cell polyethylene backer rod is recommended as joint backing to control sealant depth and to ensure intimate contact of sealant with joint walls when tooling. Where depth of joint is insufficient for the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at the time of sealant application. Avoid using sharp tools.

YIELD

The following formula is an approximate guideline to calculate yield for a standard 600ml sausage of DUROSEAL™ HYBRID 25C.
L = Length of sealant in meters obtained per sausage.
D = Depth of the joint in mm
W = Width of the joint in mm
L = 600 / (W x D) = meter per 600 ml.

Joint width	15mm	20mm	25mm	30mm	35mm
Joint Depth	8mm	10mm	12mm	15mm	15mm
Joint length / 600 ml	5 meters	3 meters	2 meters	1, 3 meters	1, 1 meters

APPLICATION DETAILS

SUBSTRATE PREPARATION

Surfaces must be sound, clean, and dry. All release agents, dust, loose mortar, laitance, paints, or other loose particles must be removed. This can be accomplished with a thorough wire brushing, sanding, or solvent washing, depending on the contamination. DUROTECH™ recommends that surface temperatures be below 40˚C at the time the sealant is applied.

PRIMING

DUROSEAL™ HYBRID 25C typically adheres to common construction substrates without primers; however, due to the variability of substrate finishes contact Durotech Technical Team on 1300 434 272.

APPLICATION

DUROSEAL™ HYBRID 25C is easy to apply with conventional caulking equipment. Ensure that the backer rod is friction fitted properly. Mask the sides of the joint with masking tape prior to filling for a cleaner finish. Fill the joint completely with a proper width-to-depth ratio and tool to ensure intimate contact of sealant with joint walls. Dry tooling is always preferred, although DUROTECH™ XYLENE can be used in limited amounts to slick the spatula if needed following the initial dry tooling.

CLEAN UP

Excess sealant and smears adjacent to the joint interface can be carefully removed with DUROTECH™ XYLENE before the sealant cures. Any utensils used for tooling can also be cleaned with DUROTECH™ XYLENE.

FOR OPTIMUM PERFORMANCE

In cool or cold weather, store product at room temperature for at least 24 hours before using. Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant however, should painting and/or coating be desired it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.Proper application is the responsibility of the user. Field visits by Durotech personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

LIMITATIONS

- Do not apply over damp or contaminated surfaces.
- Do not use DUROSEAL™ HYBRID 25C as a structural (load transferring) sealant.

STORAGE AND SHELF LIFE

DUROSEAL™ HYBRID 25C has a shelf life of 12 months when stored in tightly closed original casks, in a dry place at a temperature between +5°C and +25°C.

CURING TIME

DUROSEAL™ HYBRID 25C generally cures at a rate of 2 mm per day at 25°C and 50% relative humidity. Duroseal 50FC skin in 15 -20 minutes and be tack-free in >30 minutes. Lower temperatures and humidity will extend curing time.

HEALTH AND SAFETY

Use only with adequate ventilation ensuring correct material handling; safety goggles, mask and protective clothing. Uncured sealant may cause skin, eye and respiratory system irritation. Wash thoroughly after handling. Avoid breathing vapours. In case of skin contact, wash the affected area with hand cleaner followed by soap and water. Always utilize the accompanying MSDS for information on personal protective Equipment (PPE) and health Hazards.

VICTORIA
34 Indian Drive Keysborough
Victoria 3173
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

NEW SOUTH WALES
14 Essex st, Minto, Sydney
NSW 2566
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

QUEENSLAND
1/16 Export Drive, MOLENDINAR
QLD 4214
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

SOUTH AUSTRALIA
30C Richard Street
Hindmarsh, SA, 5007
Tel: 1300 434 272
sales@durotechindustries.com.au
www.durotechindustries.com.au

"This document, including any attached files, is strictly confidential and intended solely for the use of the individual or entity to which it is addressed. Durotech Industries prohibits the right to publish, copy, distribute or disclose any information contained in this document, or its attachments, by any party other than the intended recipient. If you have received this document in error please notify the sender and delete it from your system no employee or agent is authorised to conclude any binding agreement or make any representation on behalf of Durotech Industries. The views or opinions presented in this document are solely those of the author and do not necessarily represent those of Durotech Industries, except where the sender expressly, and with clear authority, states them to be the views of Durotech Industries. Durotech Industries accepts no liability for any loss or damage (direct or indirect or consequential) arising from the use of or in connection with this document and any attachments and suggests that the recipient check this document and any attached files for the presence of viruses."

@DUROTECHINDUSTRIES.COM.AU