ADHESIVE SEALANTS

D205/6/7
TRU-FLEX ONE PART POLYURETHANE SEALANT

TECHNICAL DATA SHEET
EDITION: 06/09/2021
PRODUCT CODE: D205/6/7

PRODUCT DESCRIPTION

Delta D205/6/7 TRU-FLEX 40FC is a single component polyurethane based elastomeric sealant which cures under the effect of atmospheric humidity to form a flexible and durable elastomer. Tried and tested for many years, this sealant has excellent adhesion properties to most materials coupled with good initial grab and non-sagging application.

AREAS OF USE

TRU_FLEX 40FC is suitable for elastic joints that will be subjected to dynamic stresses within the following related industries:

- General coach building
- caravans and motor-home assembly and repairs.
- Bus and truck industries.
- Container construction, including pipe work and fittings.
- Refrigeration, air conditioning, thermal and acoustic technologies.
- General fabrication and assembly.

Suitable substrate materials are:

- Timber
- Metals (particularly aluminium including anodised components)
- Sheet Steel (including phosphates, chromated and zinc-plated components)
- Metal primers and paint coatings (two-part systems)
- Ceramic materials and plastics

For elastic bonding to untreated metals and plastics the use of Primers is recommended. Bonding of external construction expansion joints where durability is required:

- Bonding of floors (plywood, wood and metals to sub-floor or metallic frame.
- Bonding of all exterior or interior panels, walls, sheets to corners or tubular frames.
- Bonding of GRP roofs (vans, cabins).
- Bonding of sandwich panels and walls.
- Sealing, especially for large dimension joints.

DIRECTIONS FOR USE

Surface Preparation

Surface must be clean, dry and free of water, oil, grease or rust and of sound quality. remove all loose particles or residue with a jet of compressed air, sandpaper, hard brush. Clean surface with D406 Surface Preparation Cleaner or D513 Cleaning Wipes.

Priming

Pre-test substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion. As a rule, the substrates must be prepared in accordance with DELTA instructions; specific guidance regarding adhesion on specific surfaces may be obtained by submitting substrate samples for analysis to our laboratories.

Application

Pierce through the protective membrane in the front threaded section. Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and apply material carefully preventing air entrapment.

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DIRECTIONS FOR USE .....cont

Once opened, packs should be used up within a relatively short time. Do not apply at temperatures below 5°C or above 35°C. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C

Tooling and Finishing

Tooling and finishing must be carried out within the tack-free time of the sealant.

Removal

Uncured product can be removed with a white spirit or another suitable solvent. Once cured the material can only be removed mechanically.

Overpainting TRU_FLEX 40FC in general, can be overpainted. The paint must be tested for compatibility by carrying our preliminary tests. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and modify the drying time of the paint itself. it should be understood that the hardness and rigidity of the paint film may impair the elasticity of the sealant and lead to cracking of the paint film.

BENEFITS

- Permanently flexible
- Bonds and seals at the same time
- Adhesion to a wide range of substrates
- Replaces rivets and mechanical fasteners
- Very good thixotropic properties for gap-filling properties
- Initial load bearing capacity
- Shock/impact resistant
- Capable of withstanding high dynamic stresses
- Increases torsional stiffness of final assembly
- Vibration and sound damping properties
- Sandable and paintable
- Excellent weather and water resistance

LIMITATIONS

- Do not use in conjunction with bitumen or asphalt.
- Not to be used in ponds or aquaria.
- For fixing heaving items use temporary support while curing or supplement with mechanical fixings.
- Always conduct trials when overpainting.
- The hardness and film thickness of the paint may impair the elasticity of the adhesive and lead to cracking of the paint film.

ADHESIVE SEALANTS

TECHNICAL DATA		
	CHEMICAL BASE	One-part polyurethane
	COLOUR	White Grey Black
	SKINNING TIME	approx 60 minutes @ 23°C/50%RH
	HARDNESS SHORE A	40 Approx
	CURE TIME	2-3mm per hour @23°C/50%RH
	CURE MECHANISM	Moisture curing
	APPLICATION TEMPERATURE	+5 to +35°C
	SERVICE TEMPERATURE	-30 to +80°C
	SPECIFIC GRAVITY	Approx 1.18 Kg/l @ 20°C
	SLUMP RESISTANCE	Excellent up to 25mm joints
	MOVEMENT ACCOMMODATION	± 20%
	ELONGATION AT BREAK	Approx 600%
	MODULUS@100%	0.4 MPa
	SHELF LIFE	9 months when stored in dry conditions between +5 to +25°C

HEALTH AND SAFETY

- Refer to the relevant Material Safety Data Sheet (MSDS).

PACKAGING

- Available in 310ml rigid cartridge. Other packs available on request.

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