Technical Data Sheet

PRODUCT SPECIFICATION

005-2

Structural Adhesive

Description:

This two-part methacrylate structural adhesive delivers high-strength bonding across composites, metals, and thermoplastics while maintaining crystal-clear optical clarity. Specially formulated for transparent substrates, it cures to form a tough, impact-resistant joint with superior chemical resistance to hydrocarbon solvents, acids, and bases (pH 3–10). Typical Applications: Plastics, metals, glass, thermoplastics, modern composites, commercial signage, clear display cases, trophies/awards, acrylic/glass furniture and light boxes.

Typical Properties of Cured/Uncured Material:

Properties			
Base	Methacrylate	**Elongation At Break (%)**	25
Appearance	Transparent	**Shore D Hardness**	45
Temperature Range (°C)	-40 to 120		
Shelf Life (Months)	6		
Handling Time (Mins.)	5		
Working Time (Mins.)	3		
Mix Ratio	1:1		

	Part A	Part B
Viscosity	120000	7000

Bond Strength:

(Cured for 24 hours at 20-25°C)

Strength	
Tensile Strength (N/mm2)	15

Directions For Use:

1. Always consult SDS before using for the first time.
2. Carry out surface preparation where required.
3. Remove nut, attach mixer nozzle and replace nut.
4. Dispense sufficient adhesive to ensure equal mix and uniform colour.
5. Apply adhesive to one surface and assemble components carefully, clamping if required.
6. It is always easier to remove any excess adhesive prior to cure using a suitable cleaner.
7. Allow the adhesive sufficient time to achieve handling strength before moving or unclamping components.

Curing Cycle:

At a 1:1 mix ratio, open time depends on temperature, volume, and substrate due to the adhesive's exothermic cure reaction. Higher ambient temperatures and larger mass volumes accelerate curing to reduce working time, whereas lower temperatures and smaller masses extend both open and full cure times.

Storage:

The product should be stored unopened in suitable hazardous storage conditions for adhesives in a cool, dry location and out of direct sunlight.

Precaution:

Structural methacrylates should not be used without consulting the SDS, which contains full information regarding the use of this product, including Transport, Disposal, Toxicological, Exposure Controls, Accidental Release and First Aid measures essential to the safe use of this product.

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