



I.R.S.

**RUBBER
HARDWARE
TAPES
SEALANTS**

Version 1 - 04/06/2009

TECHNICAL DATA SHEET

Pro -Flex 50 MS High Strength Adhesive-Sealant

Product Description

Admil's **Pro-Flex 50** is a premium high strength paintable one component adhesive/sealant based on silane terminated MS polymer. This unique "green" polymer is free from solvents, isocyanates, and other hazardous raw materials.

After application the sealant cures with atmospheric moisture to form a durable rubber seal.

It has been formulated to offer outstanding adhesion to most common building materials, and be used in structural adhesive sealing applications

It can be used to replace structural and Industrial grade Polyurethanes

Product Features

Pro-Flex 50 has excellent adhesion to most common building materials including: glass, aluminum, concrete, wood, vinyl, and many plastic and powder coated surfaces.

Paintable with water based paints

12 minute skin time

Movement capability \pm 25%

Superior Adhesion

Will not corrode metals

Complies with 5 Star Rating for VOC <5%
(less than 50 grams/litre) No Isocyanates

Conforms to ISO 11600 G 50HM

Applications

- Bus, truck and caravan building
- Automotive applications
- Marine applications - Boatbuilding etc
- Mirror and glass installations

Any sealing/adhesive application where high strength is paramount

Typical Product Data

PROPERTY	VALUE
CURE SYSTEM	NEUTRAL (MS)
SAG/SLUMP	NO SLUMP <2mm
HARDNESS (ASTM D2240)	50 SHORE A
TENSILE STRENGTH KGF/CM ² (MPA)	20.3 (2.03)
DYNAMIC JOINT MOVEMENT	\pm 25%
ELONGATION %	310
SKIN TIME @ 20°C & 50% RH	10 minutes
CURE TIME 10MM @ 25°C & 50% RH	3-5 days
OPERATING TEMPERATURE RANGE	-40 to 100°C
SPECIFIC GRAVITY	1.53

Values given in this list should not be used as specifications.

Cured 21 days @23°C and 50% R.H.



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Paintability

Porous substrates require a primer. Contact Admil for recommendations.

Paintable with water based paints, and most solvent based but can cause cure inhibition with some Alkyd based paints

Tests prior to the application are advised for all systems.

Sealant may yellow in the dark.

Surface Preparation

All surfaces must be clean, dry, sound, and free from dust, oil, rust, or any other contamination.

Metals should be cleaned with a non-oily solvent soaked clean cloth. Solvent should be wiped from the surface with a clean dry cloth. Use an alcohol such as methylated spirits on glass. When used on remedial work all existing sealant must be removed.

Application Directions

Cut nozzle at a sharp angle slightly wider than the desired bead. Extrude sealant with a gun and tool with a round spatula within 10 minutes to spread the sealant

Limitations

Pro-flex 50 is not recommended for use:
On submerged joints where porous substrates permit water to the bond interface.
Not for PE, PP, Teflon, Neoprene and bituminous surfaces!
In aquarium construction or structural glazing. Admil recommends it's Prosil 20 acetic for aquariums.

Health and safety

Use in well-ventilated areas, and avoid breathing vapors.
Contact with uncured product will irritate eyes.
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

COLOURS

Available in White, Black, and Grey,
in 600ML sausages and 300ML cartridges.

MSDS are available upon request

**Shelf-Life : 12 months from date of
manufacture if stored below 28°C**

Notice

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product (s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

