

PROSYTEC

CONSTRUCTION

PROGLAZE HM

ELASTOMERE SEALANT

KEY BENEFITS SUMMARY

- **Label SNJF classification :**
Elastomer 1ere cat. (glass, aluminium, concrete).
- **Proglaze HM :** white, black, translucent.
- **High modulus.**
- **Short curing time.**
- **Acetic sealant :** test to be carried out to check adhesion on various substrates.
- **Exceptional translucence**
suitable for assembly glass/glass.
- **Good chemical resistance :** to diluted acids and bases, limited exposure to solvents, maritime air.

DESCRIPTION

PROGLAZE HM is a one component silicone sealant which, when exposed to atmospheric humidity, cures rapidly to form a permanently flexible and extremely durable weathertight seal. The cured sealant will accommodate joint movement of $\pm 35\%$ throughout a wide temperature range, resistance to severe weathering is excellent.

CHARACTERISTICS

PROGLAZE HM bonds strongly to clean uncoated glass, ceramics and glazed or painted surfaces without the need to prime. For most other substrates it is recommended that a primer be used, a range of high performance primers is available which will ensure optimal bonding to most commonly encountered substrates.

After cure, PROGLAZE HM will be resistant to many acids, diluted bases and salt spray and will tolerate occasional exposure to most industrial solvents and hydrocarbon based products, in the latter case some reversible swelling and opening will occur.

The exceptional translucent quality of PROGLAZE HM is such that it is ideally suited for use where the sealant is visually prominent, examples being aquariums, display cases and shop windows.

TYPICAL USES

PROGLAZE HM is a high modulus sealant and should be selected for use on applications where joint loads are high and where relative movement between substrates is to be minimised. When used on external joints a weathertight seal of high integrity will result.

- all classical glazing joints,
- door and window frames,
- cladding and curtain wall construction,
- shop windows, display cases, panels and signs,
- Portable buildings, caravans and containers,
- Conservatories and greenhouses,
- Heating, ventilation and air conditioning, (HVAC) ducting,

PROGLAZE HM

- Construction joints,
- Sanitary fixtures (white only),
- Aquariums (translucent only),
- Swimming pools,
- Marine hardware.

TYPICAL PROPERTIES

- Cure system : Acetoxo
- Specific gravity, approx. : 1,04
- Sag, Slump (ISO 7390) : Nil
- Skin-over time (*), min. approx. : 5
- Tack-free time(*), min. approx. : 15
- Cure time(*) :
 - Mm/1st day, approx. 3
 - Mm/ 7 days, approx. 10
- Application temperature range : +5 to +40°C
- Service temperature range : -50 to +200°C
- Joint movement capability : ± 35%
- Hardness (Shore A), approx. : 23
- Elastic recovery (ISO 7389) approx. : 100

Mechanical properties

(2mm thick film – ASTM D412)

- Tensile at 100% elongation approx. :
 - 0,5 Mpa
- Tensile strength, approx. : 2,5 Mpa
- Elongation at break, approx. : 400

Mechanical properties on slabs (ISO 8339)

- Tensile at 100% elongation : 0,5 Mpa
- Tensile strength, approx. : 1,0 Mpa
- Elongation at break, approx. : 300

(*) : at 23°C and 50% relative humidity

APPLICATION PROCEDURE

Joint preparation :

The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Surfaces should be degreased with solvent using a clean cloth and the two cloth method. To remove dust, use oilfree compressed air.

Although PROGLAZE HM will bond well to most clean and dry surfaces, it is recommended that a primer be used on certain substrates in order to ensure a strong and uniform bond :

- Cast, extruded or anodised aluminium :
 - 10072, 10073 or A 4094
- Steels, ferrous metals, painted and unpainted wood : 10072 or A 4094
- Most rigid plastics : 10072 or 10037 A
- Concrete : 10058 (two component)

In the case of particularly porous materials, apply a second layer after drying.

Joint dimensions :

The movement capability of sealant as well as local regulations must be considered. Joint width should be twice the depth.

Sealant application :

For good performance, it is essential that the sealant is only bonded to the two facing sides of the joint. To achieve this, install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation making sure all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces.

This operation should be made with a dry spatula before skin formation occurs.

Excess uncured sealant should be wiped and cleaned with a commercial solvent such as trichlorethylene, cured sealant can only be removed by abrasion.

LIMITATIONS OF USE

- PROGLAZE HM must not be used on sensitive surfaces which could react with the acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place, e.g. certain rubbers.
- PROGLAZE HM must not be used for structural glazing applications.
- PROGLAZE HM should not be painted (poor coverage and adhesion of paints).
- PROGLAZE HM is not recommended where abrasion or physical abuse will be encountered. Translucent PROGLAZE HM should be used for aquariums. For all uses in permanent immersion, please consult us.

COLOUR RANGE : Translucent, white, black.

PACKAGING - SHELF LIFE - SAFETY

- PROGLAZE HM is available in 310 ml cartridges.
- PROGLAZE HM has a 24 months shelf life from manufacturing date.
- Consult the Safety Data Sheet.

CUSTOMER SERVICE

PROSYTEC SA has a team of experienced technical Sales Representatives who provide assistance :

■ **Tel : + 33.1.34.58.57.03.**

Technical, health, and Safety data sheets are available :

■ **Internet :**

<http://www.tremco-prosytec.com>

The above information is given in good faith according to our knowledge at the time of publication. Before using, we advise our users to ensure that the product complies with intended use. The product's guarantee is regulated by our sales conditions, professional and legal rules.

Prosytec

4 rue Nieuport - B.P. 270 - 78147 Vélizy cedex FRANCE Tél: 33 (0)1 34 58 57 01 - Fax: 33 (0)1 39 46 95 95

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