YHPUseal-2925

Elastic Polyurethane Joint Sealant

Technical Data Sheet (TDS)

DESCRIPTION

YHPUseal-2925 is a single-component, moisture-curing, high solid content, polyurethane elastic joint sealant. It is used for durably sealing connection and movement joints in concrete and masonry facades and also as general purpose construction sealant.

WHERE TO USE

YHPUseal-2925 is used for sealing and weatherproofing joints in the building envelope where reliability and durability is required. Typical applications include joints in concrete panel and wall systems, around window and door frame, flashing, common roofing detail applications.

CHARACTERISTICS AND PACKAGING

Item	Data
Appearance	Pasty
Color	Grey
Density / kg/L	1.30-1.50
Solid Content by Weight	99%
Service Temperature	-40℃-90℃
Shelf life	12 months
Packaging form	Soft pack, cartridge
Packing Size	600ml

ADVANTAGES

- Low VOC, high solid contents.
- Easy to extrude and tool.
- Movement capability of ± 25 %.
- Good adhesion to many construction materials.
- Bubble-free curing.
- Non-leaching.

PROPERTIES

Description	Test Methods	Typical Values
Movement capability	ASTM C719	±25%
Modulus at 100% extension / MPa	ASTM D412	≈0.5
Tensile strength / MPa	ASTM D412	≥1.5
Elongation at Break / %	ASTM D412	≥800
Adhesion in peel (on concrete) / N/mm	ASTM C794	≥2.5
Shore A Hardness	ASTM C 661	≈30
Sag flow / mm	ASTM C639	≈0

Note: The above data were tested under standard conditions (temperature 23 °C ± 2 °C, relative humidity 50% ± 10%).

APPLICATION INSTRUCTIONS

- For movement joints, the width must be at least 8 mm and should not exceed 40 mm. For non-movement joints such as connection joints in interior areas, the joint width can be less than 8 mm. The joint dimensions must be designed to suit the movement capability of the sealant. In all cases joints must be at least 8 mm deep, or a have a width to depth ratio of 1 : 0.5 for the facade joints or 1 : 0.8 for floor joints whichever is greater.
- Substrate Preparation: The substrate must be sound, clean, dry and free of contaminants such as dirt, oil, grease, cement laitance, sealant residues and poorly bonded coatings which could affect adhesion of the primer and sealant. The substrate must be of sufficient strength to cope with the stresses induced by the sealant during movement.
- Filling Material in Joints: insert a suitable backing rod to the required depth and apply any primer if necessary.
- Sealant Protection: Apply masking tape on both sides of the joint where exact joint lines or neat lines are required.
- Sealant application: Insert a sausage into the sealant gun and extrude the sealant into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Remove the masking tape within the skin time. For horizontal sealing, use a concave trowel. If necessary, use a compatible tooling agent to smooth the joint surfaces. Don't used tooling products containing solvents.
- Cleaning: Clean tools immediately after application. Once cured, residual material can only be removed mechanically.

TRANSPORTATION STORAGE

- Storage temperature should be between 5 °C-35 °C, in a dry, cool, and well-ventilated environment.
- Protect from rain, sun exposure, freezing, squeezing, and collision. Keep the packaging intact.
- The shelf life of unopened products is 12 months from the date of production.

PRECAUTIONS

- Poor adhesion may be caused by inadequate surface preparation. Don't apply the sealant on the poorly prepared or uncleaned substrate.
- Don't apply on building materials which leach oils, plasticisers, or solvents, such as bitumen, natural rubber or EPDM rubber.
- Don't used the sealant to seal joints in and around swimming pools containing water treatment agents such as chlorine.
- Don't expose the sealant to alcohol-containing products during the curing period.
- Don't use the sealant in enclosed spaces with limited exchange of air, due to the atmospheric moisture is required for the sealant to cure.
- Color variation may occur especially with white or other light color shades. This effect is purely aesthetic and does not adversely influence the technical performance or durability of the sealant.

HEALTH AND SAFETY

Please read the safety manual carefully, our security experts will be pleased to give you advises about safety, health and environmental issues.

DISCLAIMER

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggest. In any application, the customer shall be responsible to comply with obligations of third-party intellectual property rights. Without our consent, anyone shall not provide technical information to third parties.