

BestSeal 500Flex

Dec 2023 Version

Elastomeric joint sealant, polyurethane-based, one component.

Description:

BestSeal 500flex is an elastomeric joint sealant, one component based on polyurethane and moisture curing. It is a perfect product for expansion joint sealing, and typical indoor and outdoor general sealing applications.

Recommended uses:

BestSeal 500Flex is designed for joint sealing and expansion joints on porous structures as well as for typical indoor and outdoor general sealing applications such as:

- Thermal expansion joints, expansion joints through the ceiling.
- Cracks, holes through the floor, through the wall.
- Industrial concrete floors, indoor and outdoor parking lot.
- Area of taxiways, terraces, runways.

Advantages:

- One component, mix-ready, easy to apply.
- Harsh weather resistant. Use both indoors and outdoors.
- Non-sag, no sagging.
- Good adhesion to many materials: concrete, brick, stone, mortar, wood, metal, glass and plastic (FRP, GRP, ...)
- High elasticity, a movement capability of 25%.
- High tear resistance.

Approval:

ASTM C920-14 Type S, Grade NS, Class 25, Uses NT, T1 and M.

PRODUCT INFORMATION**Chemical composition:**

PUR, one component, moisture curing.

Density:

1.38 ± 0.05 kg/liter. (25°C)

Supplies form:

Grey; White.

Storage condition:

In a cool and dry place, avoid direct sunlight, the ambient temperature is 5°C ÷ 25°C.

Shelf life:

12 months.

Packaging:

600ml/ingot; 20 ingots/box.

Shore A hardness:

40 ÷ 50

(ASTM D2240-15)

Tensile strength≥ 1.5 N/mm²

(ASTM D412-16)

Elongation at break

≥ 500%

(ASTM D412-16)

Bonding strength:~ 0.6N/mm², expansion 100% after 28 days

(ASTM C1135-05)

Service temperature:

-10°C ÷ 70°C

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APPLICATION:

Surface moisture/temperature:	Dry, 5°C ÷ 40°C
Environment condition:	5°C ÷ 40°C, above Dew point as least 3°C.
Curing speed:	~ 3mm/24h.
Skin time:	~60 minutes at 23°C/RH 50%.
Back material:	Backed rod, closed cell.

Consumption:	Joint Width (mm)	Joint Depth (mm)	Joint distance/600ml (m)
	10	8	~ 7.5
	15	8	~ 5.0
	20	10	~ 3.0
	25	12	~ 2.0
	30	15	~ 1.3

GUIDE TO APPLICATION

Substrate preparation:	<p>Surfaces must be clean, dry, and free from grease, oil, and dust. All the friable coating must be removed.</p> <p>For smooth substrate:</p> <p>Metal: Old coating must be mechanically treated such as sanding and using BestClean RR112 to remove rust. Apply with BestPrimer AC409.</p> <p>For porous substrates such as concrete, mortar, and brick: Apply BestPrimer AC409.</p> <p>Note: The layer of primer is only a shelf-life promoter. They neither as cleaning subtitles nor substrate strength factors.</p>
Application:	<p>Insert backer rod according to specifications, and sweep primer if necessary.</p> <p>Insert BestSeal 500Flex into the sealant gun and firmly extrude into the joint making sure that it is in full contact with the side of the joint. Fill the joint, avoiding air entrapment. Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.</p>
Cautions:	<ul style="list-style-type: none"> Can be over painted with most conventional facade coating paint systems. However, paints must first be tested to ensure compatibility by caring out preliminary trials. Color could be changed due to chemical contact, high temperature, and UV exposure but It will not adversely influence the technical performance or the durability of the product. Do not use BestSeal 500Flex to fill bituminous substrates, natural rubber, EPDM rubber, or on building materials that might bleed oils, plasticizers, or solvents which could attack the sealant. Do not use seal swimming pools. Not suitable for joints with water pressure or permanent water immersion. Only use in good ventilated areas. Do not expose the product to substances that may react with isocyanates, thinners, solvents, cleaning agents and formwork-releasing compounds.

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Cleaning:	clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.
Health and safety:	BestSeal 500Flex can cause allergic reactions to sensitive skin with prolonged exposure. Wear gloves, masks, and goggles when using the product. In case of getting into the eyes, nose, or mouth... should immediately wash with clean water several times before going to the nearest medical facility for timely and proper treatment. Dispose of the product in the correct place prescribed by the local environmental protection and management agency.

Disclaimer:

The technical information and application instructions in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change the features of our product, user must always refer to the latest technology product.

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