


WFP PU FLEX 20



1-component, polyurethane construction sealant Moisture curing, low modulus sealant

Product description	WFP PU FLEX 20 is a one component moisture curing, low modulus sealant.	
Area of application	WFP PU FLEX 20 preferably used for interior and exterior dilatation joints in concrete. Expansion & sealing joints in almost all building substrates. Joints between wooden, metal, aluminum or PVC frames and masonry.	
Properties	<ul style="list-style-type: none">- Excellent adhesion to most substrates- High mechanical performances- Permanent elasticity under all climate conditions- Paintable (prior compatibility test necessary)- One-component- Joint sealant- UV-resistant	
Specifications	Material:	Polyurethane based compound
	Colour:	grey, other on demand
	Curing:	Moisture-curing
	UV-resistant:	yes
	Density (23°C and 50% r.h.):	1.15 to 1.19 g/ml depending of colour
	Consistency:	Non-sag paste
	Resistance to vertical flow:	<3 mm (ISO 7390)
	Shrinkage:	<10% (ISO 10563)
	Shore-A hardness:	approx. 20 (ISO 868)
	E-modulus at 100%:	approx. 0.20 N/mm ² (ISO 8339)
	Elongation at break:	>950% (ISO 37)
	Shearing strength:	approx. 0.40 N/mm ² (ISO 4587)
	Elastic recovery:	>70% (ISO 7389)
	Skin forming time:	approx. 100 min (23°C & 50% r.h.)
	Capacity of joint movement:	approx. 25%
	Curing speed:	3.5 mm/day (23°C & 50% r.h.)
	Temperature resistance:	-30°C / +70°C
	Application temperature range:	+5°C / +40°C

	WFP GmbH Drescherstr. 49 D-71277 Rutesheim 15 EN 15651-1:2012 Unique identification code of the product-type WFP-040620 EN 15651-1: F-EXT-INT-CC Class 25 HM Sealants for farcade elements																	
	<table border="0"> <tr><td>Reaction to fire</td><td>Class E</td></tr> <tr><td>Release of chemical dangerous to the environment and health</td><td>NPD (*)</td></tr> <tr><td>Water tightness and air tightness</td><td></td></tr> <tr><td>Resistance to flow</td><td>≤ 3mm</td></tr> <tr><td>Loss of volume</td><td>≤ 10%</td></tr> <tr><td>Tensile properties at maintained extension after water immersion</td><td>NF</td></tr> <tr><td>Tensile properties (secant modulus) for use in cold climate areas (-30°C)</td><td>NR</td></tr> <tr><td>Tensile properties at maintained extensions for use in cold climate areas (-30°C)</td><td>NF</td></tr> <tr><td>Durability</td><td>Pass</td></tr> </table>	Reaction to fire	Class E	Release of chemical dangerous to the environment and health	NPD (*)	Water tightness and air tightness		Resistance to flow	≤ 3mm	Loss of volume	≤ 10%	Tensile properties at maintained extension after water immersion	NF	Tensile properties (secant modulus) for use in cold climate areas (-30°C)	NR	Tensile properties at maintained extensions for use in cold climate areas (-30°C)	NF	Durability
Reaction to fire	Class E																	
Release of chemical dangerous to the environment and health	NPD (*)																	
Water tightness and air tightness																		
Resistance to flow	≤ 3mm																	
Loss of volume	≤ 10%																	
Tensile properties at maintained extension after water immersion	NF																	
Tensile properties (secant modulus) for use in cold climate areas (-30°C)	NR																	
Tensile properties at maintained extensions for use in cold climate areas (-30°C)	NF																	
Durability	Pass																	

(*) See material safety data sheet
 NPD: No Performance Determined
 NF: No Failure
 NR: Not required

Delivery form Aluminium bags 600 ml

Storage Stored under cool (minimum +5°C and below 25°C) and dry conditions, protection of permanent UV-radiation is needed, 12 months storable

Installation

Pretreatment of the substrate

Dimensions of the joint must be in conformity with the professional rules into force. Joint walls must be sound, clean, dry and free from oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker to prevent bond at base of joint. Most substrates only require priming if testing indicates a need. Consult our technical service for additional information.

Material

Apply with hand or pneumatic guns (maximum required pressure: 3,5kg). When applying avoid air entrapment. Smooth with joint nail or putty knife. Tooling and finishing must be carried out within the skin formation time of the sealant.

Cleaning

Material: immediately with white spirit. Hardened sealant can only be removed mechanically.
 Hands: soap and water.

Paintability

Can be covered by means of water based paints. It must be understood that sealants are elastomeric in nature, enabling them to extend and compress within a construction joint. Most paints are designed to be applied to hard, non-moving surfaces and do not match the elastomeric properties of sealants. Because sealants are soft and will extend and compress, if the paint film does not move in an identical manner to the sealant, the paint may crack and peel. It is always recommended to make test of compatibility with the paint before application.

Limitations

- Avoid exposure to high levels of chlorine.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not cure in the presence of curing silicone sealants.
- Do not apply when a moisture vapour transmission condition exists at time of application, as this can cause bubbling within the sealant.
- Slight yellowing may occur with white sealant exposed to ultraviolet rays.
- Among others not recommended for glazing and not for aquaria, PE, PP, Teflon and bituminous surfaces.

Recommended tools:

Brush, gloves, application tools.

Remarks:

The information complies with the current state of development. There is no claim for completeness. A professional and therefore successful processing of the products is not within our responsibility. We accept a warranty only for the quality of the products, but not for processing. It is the responsibility of the user to evaluate the suitability of our products for its purpose. Preliminary tests are recommended.