

ACS JOINT PU 35®

New Generation Hybrid Polymer,
One Component, Joint Sealant



■ Description

ACS JOINT PU 35® is a Hybrid Polymer joint filler resistant to weather conditions, UV-rays and deterioration caused by chemical substances in the atmosphere.

■ Place of usage

- In joints of prefabricated building elements.
- In the joints of the structures above the ground.
- Can be used in buildings between precast concrete blocks for filling of open work-joints.
- In the construction sector, filling joints between building elements.
- In PVC windows profile assembling.
- In spaces between wooden door and window assembly and wall joinery.

- PCV in the joints of exterior coatings such as aluminum.
- Sealing the rainwater pipes rain gutters at the joints.

■ Advantages

- Easy and fast application.
- One-component.
- UV resistant.
- Does not create air bubbles during curing.
- It has moisture-curing properties.
- Ready to use and practical product.
- Has high elasticity.
- Chemical-resistant.
- Excellent adhesion with concrete, metal, wood and other construction materials.
- Doesn't change its properties in any weather conditions throughout usage.

TECHNICAL CHARACTERISTICS

DESCRIPTIONS	RESULT	STANDARD
Chemical Structure	New Generation Hybrid Polymer	
Density	1,45 g/ml	
Movement Capability	± %25	
Shore A Hardness	35-40	DIN 53505
Elongation at Break	%800	ASTM D412
Elasticity Module	0,6 Mpa	DIN 52455
Tensile Strength at Break	1,00 Mpa	DIN 53504
Temperature	-40 °C with +90°C	
Tensile Strength	2.4 N/mm ²	
Service Temperature	+5°C with +35°C	
Surface Drying	25-40 Minutes	
Curing	3 mm -24 Hour Fully Cured 7 Days	
Curing Mechanism	Moisture Curing	

APPLICATION METHOD /SURFACE PREPARATION

Before application the joint surface must be dry, clean from dust and other matter. On precast panels where mold oil was

used the surface must be defatted before application. Take into attention that the joints should be flat, even everywhere and the material does not extend over the edges. Where necessary, easy peelable tapes should be glued to both sides of the joint

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to ensure smoothness and cleanliness and smooth lines should be removed after application (before curing of the product). Take care that the width / depth ratio is 2/1 when the application is carried out. To provide required depth in joints use joint filler cord if necessary. During application of mastic compound to three surfaces there is a risk of adhesion failure on the joint material in, only adhesion to two opposing surfaces can be carried out. In such cases, non-sticking material should be placed between the joint sealant and the surface or filler cord.

APPLICATION METHOD

Primer Application: ACS JOINT PU 35®, should be used on absorbant surfaces (Concrete, Screed, Wooden Surfaces), ACS PU PRIMER®, should be used on non-absorbent surfaces (Ceramic, Tiles, Metal, Aluminum Surfaces), ACS AQUA EPOXY PRIMER® can be used as primer.

Mastic Application: Place ACS JOINT PU 35® tube to the mastic gun filled from the tip and cut it open so the gun with its spray orifice is ready for use. Then the ACS JOINT PU 35® tube is placed into the polyethylene wicked joint, starting from the surface of the wick to the lined inner right and left inner surfaces; then the remaining part of the joint should be filled into the middle part. Following this three -step process the filled joint surface should be leveled with a spatula. The surface should be given the final shape with soapy water and immediately the masking tapes should be removed from the surface without breaking the surface of the joint. Consumption is theoretical. Consumption changes depending on the joint flatness and the shape of the polyethylene gasket.

CONSUMPTION

Theoretical joint length with ACS JOINT PU 35® 'tube' (600 ml)

Joint Width [mm]	Joint Depth [mm]	Joint Length (300 ml Cartridge) [mt]	Joint Length (600 ml Tube) [mt]
10,00	8,00	3,75	7,50
15,00	8,00	2,50	5,00
20,00	10,00	1,50	3,00
25,00	12,00	1,00	2,00
30,00	15,00	0,67	1,33

Consumption is theoretical. Consumption changes depending on the joint flatness and the shape of the polyethylene gasket.

TIPS TO NOTICE

- ACS JOINT PU 35®, should not be applied below + 8 °C and above + 35 °C.
- When applying, take into attention that the joint width /

depth ratio is 2/1.

- In external surface applications, joints should be protected from rain, snow and water and from the first 48 hours.
- The operating and reaction times of polyurethane based systems are affected by ambient and substrate temperature and relative humidity in the air. At low temperatures the chemical reaction slows down, which extends the working time. Higher temperatures increase viscosity, accelerate the chemical reaction, and the abovementioned times are shortened accordingly. For the material to complete the curing process the ambient and surface temperature must not fall below the minimum permissible temperature.

CLEANING OF TOOLS

Used tools and equipment should be cleaned with suitable solvent after application. After setting ACS JOINT PU 35® can only be mechanically removed from the surface.

STANDART COLORLER

White - Grey

PACKAGING

310 ml cartridge 600 ml 'tube'

STORAGE

In unopened original package, it should be stored in a cool and dry environment at + 10 °C+ 25 °C temperature protected from the freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children. Please refer to the Material Safety Data Sheet for detailed information.

Responsibility

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones (06/2019)