

# Teknopoliderz 1K

Polyurethane Based Joint Filler Mastic, Sealant



**Product Description** Grouting mastic used indoor and outdoor areas, with high elasticity, cured with air damp, used in horizontal and vertical joints, polyurethane based, single component.

## Areas of Usage

- At highway and bridge joints
- In industrial field concrete joints,
- In joints of water channels and flumes,
- In construction joints narrower than 3.5 cm,
- Hospitals, residences, exterior windows in the shopping center, door edges,
- In construction joints of concrete, brick, wood, metal, aluminum and PVC building elements.
- In the parapet joints between the precast wall panels,
- It is resistant to weather conditions and water,
- It is resistant to UV rays.

## Features and Benefits

- A single-component, ready-to-use product,
- It can be painted on.
- It does not require a primer.
- It perfectly matches concrete, stone, metal, wood and other construction materials.
- Prefabricated creeks, gutters, reinforced concrete gutters and hidden places in the joints and joint details, ease of use due to water isolation.

## Application Instructions

Surface quality: The surfaces must be clean, smooth, firm and dry, and weak parts should be removed from the surface. It cannot be applied on moist surfaces.

Surface Preparation: Before application, joints should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

A masking tape is adhered to the upper parts of the joints so as not to come into the middle. This application must be done in order to prevent the mast from being contaminated and to make it come out smoothly. It is used with cartridges / sausage guns / muzzleloader guns to push mastic to joint. After placing the TEKNOPOLIDERZ 1K into the sausage gun, the package's end opens. Adjust the tip of the cannula according to the joint gap to be applied. By pressing the trigger of the sausage gun, the polyurethane mastic is moved forward. 3-5 minutes after the mastic is hardened, the gloved index finger is immersed in soft soap. Then, on the drawn mastic, it is possible to move the surface smoothly by moving back and forth. After this process is complete, the masking tape is removed and discarded.

## Application Notes / Restrictions

- All mastic applications should be performed at temperatures above +5°C.
- Because moisture on the surface affects adherence negatively.
- The surfaces to be treated with TEKNOPOLIDERZ 1K must be absolutely dry, free from moisture and debris.

## Technical Data

General Information	
Structure	1K Polyurethane Based, Moisture Cured
Color	Grey, white or special colors
Density	1.20 ± 0,03 kg/ltr (DIN 53479)
Packing	600 ml sausage / 280 ml cartridge
Application Information	
Application Temperature	Between +5°C and +50°C
Curing Speed	~ 2 mm/24 h (+23 °C / 50 % humidity)
Crusting Time	~ 90 minutes (+23°C / 50 % humidity)
Touch Dry Time	60 min.
Full Strength Time	24 hours (for 2 mm)
Consistency	Thixotropic
Performance Information	
Elongation (%)	≥ 600 % (+23 °C / 50% Hum.) (ASTM D412) (DIN 53504)
Movement Capacity	% 25 (ASTM C719)
Rupture Resistance	~ 1,5 N/mm (+23°C / 50 humidity) (DIN 53515)
Shore A hardness: 80	30±5 (DIN 53505)
Return (%)	> 80% (+23°C / 50% humidity) (DIN EN ISO 7389 B)
Modulus of Elasticity	~ 0.5 N/mm <sup>2</sup> (100% elongation) (DIN EN ISO 8340)
Joint Interval	Minimum width = 10 mm Maximum width = 35 mm
Service Temperature	At least -30°C, at most +80°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

