

**Polyurethane sealant and adhesive for industrial and construction applications**

Product description	SICON KD 240 is one component, permanently elastic, polyurethane sealant and adhesive for industrial and construction applications.					
Use	<ul style="list-style-type: none"><li>Filling and sealing expansion joints, both vertical and horizontal, also in industrial floors,</li><li>Sealing joints in ceramic tiles, concrete slabs, pipe and cable bushings,</li><li>Construction and finishing elements waterproof jointing and cracks and expansion joints filling (including floors),</li><li>Sealing in industrial buildings (terminals, halls, warehouses), roads (construction of roads, bridges, car parks), housing (swimming pools, floors, foundations), hydrotechnical (quays, piers, shipyards),</li><li>Flexible sealing of lightweight metal and steel structures,</li><li>Bonding and sealing of structural steel structures,</li><li>Sealing of ventilation ducts, silos, containers, tanks, etc.,</li><li>Roofing sealing .</li></ul>					
Properties of Sicon KD 240	<ul style="list-style-type: none"><li>Permanently flexible,</li><li>Very good adhesion to most construction substrates without the need for primers,</li><li>Very low water absorption capacity,</li><li>Vibrations are well compensated - dynamic loads are very well carried,</li><li>Resistant to fuel, many acids, mineral oils, vegetable and animal fats, hydraulic dusts</li><li>Painted after complete hardening.</li></ul>					
Technical data						
Type	Permanently elastic					
Base	Polyurethane					
Consistency	Thixotropic					
Specific gravity	1,15-1,19 g/ml ( depending on the color)					
Dripping	according to ISO 7390: not present					
Curing time	-3 mm daily (at 23°C and 50% of relative humidity)					
Dust dryness	-15 min (at 23°C and 50% of relative humidity)					
Permissible deformation	± 20%					
Module 100 %	according to ISO 37-NF T 46002			0,57 MPa		
	according to DIN 53504			0,51 MPa		
	according to ISO 8339			0,4 MPa		
Shore A (3s) hardness	according to 868			40°		
Elongation at break	according to ISO 37-NF T 46002			970%		
	according to DIN 53504			990%		
Bending strength	according to ISO 37-NF T 46002			1,69 MPa		
	according to DIN 53504			1,6 MPa		
Reaction to fire	according to EN 13501-1 +A1:2010			class: E		
Thermal resistance after hardening	from 30°C to +80°C					
Paintability	Yes					
Product Data SICON KD 240						
Colour	grey, other colors on request					
Packaging	600 ml, aluminum foil packs					
Shelf life	Shelf life of the product is 12 months from date of manufacture, assuming storage in undamaged original packaging.					
Storage conditions	Closed pack stored at +5°C to +25°C. Resistant to transportation conditions at up to -15°C.					
Joint dimensions						
Minimum width	4 mm					
Maximum width	20 mm					
Recommended proportions	Joint width [mm]	4-8	10-12	14-16	17-18	19-20
	Joint depth [mm]	6	7	8	9	10
	Use expansion joint cords, to achieve proper depth and to prevent three-point contact of the sealant					
Application						
Types of surfaces where SICON KD 240 can be used	Steel, stainless steel, chrome plated steel, aluminum and other metals and their alloys and concrete substrates, ceramics, stone, glass and glazed surfaces, enamel, impregnated wood, PVC, polyester and the like plastics.					
Substrate preparation	Remove fats, oils, dirt, dust, the remains of previous sealants and other similar debris from the surface. Apply Primer 25 to highly porous, fragile substrates, vulnerable to immersion in water or with high physical and mechanical loads applied. If any doubts, it is recommended to make an adhesion test.					

<b>Substrate conditions</b>	Stable, strength, firm, dry and free from grease, dust, oil and other contaminants surface
<b>Tools</b>	Manual or pneumatic spray guns
<b>Application conditions</b>	
<b>Ambient temperature</b>	from +5°C to +30°C (relative humidity <50%)
<b>Recommendations</b>	Put the foil pack into the spray gun, cut off the tip or clip, make sure that the correct applicator nozzle is mounted on the front of the gun, and then screw in the front gun cover. Follow the instructions for use of the spray gun. Apply the sealant with a slow, steady motion, exactly filling the gap, so that the joint is free of air bubbles. Use a spatula to smooth the joint within 15 minutes from the application.
<b>Cleaning</b>	Clean the substrate and tools immediately after use with white spirit. Wash hands with soap and water.
<b>Limitations</b>	Not to be used for joints with PE, PP, Teflon, bituminous surfaces. Do not apply paints based on alkyd resins. Avoid exposure to high concentrations of chlorine. Do not use the sealant in combination with silicone sealants. During curing, avoid contacts with alcohols, solvent based agents, and protect against condensation. Do not use for gaps slots of the depth of more than 13 mm. In the case of white sealant, long exposure to UV radiation may cause yellowing. Apply paints or varnishes after full curing.
<b>Comments and recommendations</b>	
<b>Health and safety conditions</b>	Please refer to the warnings and instructions on the label, and contained in the product data sheet, before using the product. In case of its application, use personal protective equipment as gloves and goggles. Detailed guidance on safety, health and hazardous properties of the material are included in the Material Safety Data Sheet - supplied by the manufacturer upon request.
<b>Final remarks</b>	These instructions have been drawn up according to the current state of the art and experience in the application of the product, they refer to the products stored in accordance with the specified instructions. The product documentation provides for general information applicable under certain conditions. It is recommended that before using the product on a large scale, the purchaser tests it under specific construction environment conditions. The supplier has no control over the use, methods of application and execution conditions occurring at the construction site and therefore no responsibility of the supplier for the final effect of the application may arise from these instructions. Date of issue: 01/2016 All previously issued Sicon KD 240 safety data sheets shall expire on the date of issue of this sheet.