

Technical Data Sheet

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE

Version: 1-EN

Date: 01.08.2024

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE

Product description:

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE is a two-component silicone adhesive used bonding of glass in window and door constructions made of aluminium, PVC, steel and wood. As supplied, the base is a smooth, white paste and the curing agent is a black paste. Once mixed, the material cures to form a high-modulus, flexible silicone rubber that is suitable for use in window bonding. Perfect for strengthening frames of large size windows and doors, as well as safety glazing in antiburglary constructions. Perfect for transfer of stiffness from glass panes to minimal, narrow frames systems. Two component fast curing formula allows fast and efficient production which increase productivity as well as application in places with limited access to moisture. Vi-Pro® WB 2K is also suitable for production of panel doors as it provides fast and durable connection.

Features

- Snap time 6-18 minutes subject to mixing ratio
- Silicone Durability - Excellent weatherability, virtually unaffected by sunlight, rain, snow, ozone.
- Neutral Cure - excellent unprimed adhesion to a wide variety of substrates including coated, enameled, and reflective glasses; PVC, anodized and polyester coated or painted aluminum profiles including most fluoropolymer- based paints
- Availability of suitable Vi-Pro® primers for substrates which needs adhesion increase

Product Characteristics

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE Uncured Properties			
<i>Property</i>	<i>Component A</i>	<i>Component B</i>	
Color	White	Black	
Specific Gravity, g/ml	1.4± 0.04	1.02 ± 0.02	
Mix Ratio by volume	8:1 until 12:1		
Mixed Compound Properties (10:1 mix ratio volume, 23°C, 50% RH)			
<i>Property</i>	<i>Method</i>	<i>Unit</i>	<i>Value</i>
Color			Black
Specific Gravity		g/ml	1.4± 0.04
Tack free time	10:1	min	< 10
Extrudability	ISO 9048	s	2~5
Sag/Slump	ASTM D2202	mm	0

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Heat Weight Loss	GB 16776	%	2~4
Cured Properties (7 days after mixing, 23°C,50% RH)			
Durometer Hardness Shore A	ISO 7619	24h 7 Days	>30 45±5
Ultimate Tensile Strength	ISO 8339	MPa	>0.70
Ultimate Elongation	ISO 8339	%	>100
Application Temperature Range		°C	-5~40
Service Temperature Range		°C	50~150

Application

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE should be mixed and dispensed using two-component mixing equipment which is readily available from several international accepted equipment manufacturers. This equipment is specifically designed to meter proportions of A base and B curing agent, mix in an air-free environment and dispense at the proper pressures and volumes to insure air-free mixed material. Hand mixing is not recommended. The Proventuss technical team will consult its customers upon request regarding pumping equipment start-up and shutdown procedures which cover proper operating pressures, mixing devices and purging requirements. Vi-Pro WB 2K WINDOW BONDING SILICONE ADHESIVE secures an outmost consistency of their products. The B curing agent component is moisture sensitive and should not be exposed to the atmosphere. The curing agent may require minimal hand mixing before placing container in pumping equipment. Cure rate may be adjusted by changing the A base to B curing agent ratios. Vi-Pro® WB 2K may be used with A to B ratios from 8:1 to 10:1 by volume. Prior to production use, a sample of base (A component) and curing agent (B component) should be taken from each lot of material to be used, weighed to proper A to B ratio, hand mixed, and checked for proper tack-free time and thick section cure rate prior to placing in production. Before applying Vi-Pro WB 2K all surfaces should be cleaned and free of grease, oil, dust, water, Frost, Surface dirt, old sealants or glazing compounds and protective coatings. The joint design should be confirmed by the Proventuss technical team or the aluminium system of choice to secure the capacity for accommodating the structure loads of the facades. The compatibility of spacer tapes, weather sealants, gaskets and further products being in contact with Vi-Pro WB 2K have to be confirmed prior to the application. After application the bonded elements should be stored in horizontal position until the silicone has built it specified mechanical strength. Please involve at early stage the Proventuss technical team for a proper usage of Vi-Pro WB 2K WINDOW BONDING SILICONE ADHESIVE in bonding applications.

Packaging:

Vi-Pro® WB 2K WINDOW BONDING SILICONE ADHESIVE is available in

- 1) Component A (Base) in 250kg drums and
- 2) Component B (Catalyst) 25 kg pails
- 3) 490 ml Cartridges plus static mixer

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Shelf-life and Storage

When stored at or below 30°C in the original and unopened packaging, Vi-Pro® WB 2K has a shelf life of 9 months from the date of manufacture. Refer to product packaging for "Manufacturing Date".

Handling Precautions

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Vi-Pro site www.vi-pro.eu

Safety precautions

Material Safety Data Sheets are available on demand. MSDS are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. MSDS are updated regularly, therefore, please request and review the most current MSDS before handling or using any product. Never burn away.

Customer notice/ Limited warranty

The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experiences. Properties quoted are intended, as a guide and do not therefore constitute a specification. Customer/user should thoroughly test any application to be sure that product corresponds to the required performances. Suggestion of use shall not be taken as inducements to infringe any patent. Proventuss product warranty confirms our products will always meet the technical data sheets values for the duration of the granted shelf-life if all advises given by Proventuss through application, storage and handling guidelines have been followed up correctly. Customers can be asked to protocol and proof that the guidelines were followed. Proventuss specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability others than described in our technical data sheets. The sole warranty is that the product will meet the sales specifications in effect at the time of shipment. Exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. The Seller shall not be liable for any incidental or consequential damages.

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