vivtek

V04

solvent adhesive

PRODUCT DESCRIPTION

Product type	Solvent adhesive
Components	Single-component
Application	Fast-bonding adhesive for acrylic
Colour	Clear
Consistency	Thin/watery
Odour	Pungent

Vivtek V04 is a very thin, clear adhesive for bonding acrylic, polycarbonate, ABS, polystyrene and other rigid plastics. It is widely used in advertising and recommended for bonding Alurapid (3D) tapes and Elkamet because it quickly forms strong joints. Its low viscosity and watery consistency allow capillary application in many uses (with a syringe and needle). The adhesive can also be used for POP/POS items such as advertising elements or acrylic display stands.

Available packaging

500 mL

Bonded materials

plastics: PMMA, PC, ABS, polystyrene, PVC, PS, CAB, PETG
other: Alurapid tapes, Elkamet

The adhesive bonds many materials, including those not listed above. Strength for specific plastic grades may vary and must be tested. Typical strengths for joints tested by us are given below.

Typical bond strength

Material	Typical shear strength MPa (N/mm²)	
	24 hours	7 days
Acrylic	14,00	17,50
Polycarbonate	11,50	17,00
Polystyrene	9,50	14,00

APPLICATION GUIDELINES

Before using the product, read the Safety Data Sheet for information on precautions and safety recommendations. Even for chemical products exempt from labelling requirements, precautions must always be observed and local safety regulations must be followed.

Surface preparation

Substrates must be clean, dry, free from oil and grease, and the rooms must be well ventilated. Before bonding, the surface should be degreased with Vivtek A51.

TECHNICAL DATA

Shear strength:	14 - 18 MPa
Joint elongation:	none
Application temperature:	+18°C to +25°C
Reaction time:	1 – 2 minutes
Curing time:	3 minutes
80% bond strength:	72 hours

Application

Apply the adhesive using a syringe, dropper or brush. Join the parts before the adhesive dries. If the adhesive is applied to only one part, allow it to react with the dry surface before pressing the parts together. Initial bond strength is reached very quickly, while 65 - 80% of bond strength is achieved within 24 to 72 hours. Full bond strength is achieved in approximately one week.

We recommend stress relieving the acrylic after machining and before bonding, because the adhesive contains solvent and this may cause cracking of material that has been mechanically or thermally processed.

In many cases, applying the adhesive with a brush may prove ineffective due to the rapid evaporation of the solvent.

Capillary bonding method - gently place the parts to be bonded together and apply the adhesive to the joint edge using a needle dispenser or syringe. It will be drawn into the joint to a depth of approximately 6 mm. Wait a few seconds for the adhesive to react with the bonded surfaces, then gently press the parts together.

Classification

The Safety Data Sheet contains information on:
Hazards
Transport rules
Safety rules

STORAGE

Freeze sensitivity	YES
Storage temperature	5°C to 23°C
Shelf life, months	36
	(in unopened, original packaging)

ADDITIONAL INFORMATION

The information contained in this Technical Data Sheet (TDS), including recommendations regarding the use and application of the product, is based on our knowledge and experience of this product as of the date of issue of the TDS. The product may have a wide range of applications and may also be applied and operated under conditions in your environment that remain beyond our control. Vivtek is not responsible for the suitability of the product for the manufacturing processes and conditions in which it is used, nor is it responsible for the intended use and the result achieved. We strongly recommend carrying out your own tests to confirm the suitability of our product. Any liability arising from the information contained in the Technical Data Sheet (TDS) or from any other written or oral recommendations concerning the product is excluded, unless otherwise required by mandatory provisions regarding product liability or expressly agreed by the parties, and also in the event of death or personal injury caused by our negligence.

The material contained in this document has been prepared to the best of our knowledge and is intended for information purposes only. Vivtek accepts no responsibility for the method or manner of use selected by the user, nor consequently for the results obtained. It is also the user's responsibility to take appropriate precautions in order to avoid any risk to production and persons associated with the use of the product. Vivtek does not accept any claims related to damage to or destruction of production or loss of profit. This position results from the fact that Vivtek has no control over the ways in which individual users use the product; therefore, we cannot share responsibility for the consequences of any errors or omissions. We advise every user to carry out their own trial before using the product, using the data presented here as guidance.

03.07.2024 (2.0)

Manufacturer / Importer / Distributor
VIVTEK Sp. z o.o.
plac gen. Józefa Hallera 5, lok. 14a 03-464 Warszawa

kontakt@vivtek.pl
http://vivtek.pl
http://ekleje.pl