Kratos Adhesive

Technical Data Sheet

KraTos™
ADHESIVE STRUCTURAL REINFORCEMENT

DEFINITION

Kratos Adhesive is a two-component epoxy-based adhesive specially produced for Kratos C-Plate.

APPLICATION AREAS

Kratos Adhesive is used on the structural elements to be reinforced with Kratos C-Plate, and on horizontal and vertical surfaces for the purpose of bonding Kratos C-Plate to the surfaces of the building elements.

FEATURES & BENEFITS

- Easy to mix, easy to apply with a saturating roller.
- Applied on vertical and overhead surfaces.
- Provides good adherence to many surfaces.
- Has high mechanical properties.
- Solvent-free.

KRATOS ADHESIVE TECHNICAL SPECIFICATIONS

Density (kg/lt) (lbs./in.³)	2,00±0,10 (0.07±0.004)
First Touch (@23°C (73.4°F), %55 RH) (hours)	8±1
Full Hardening (@23°C (73.4°F), %55 RH) (week)	1
Compression Strength (MPa) (ksi)	>40 (5)
Shear Strength (MPa) (psi)	>6 (870)
Elastic Modulus (MPa) (ksi)	>2600 (377)
Tensile Adhesive Strength	100% breakage from concrete
Thermal Coefficient of Expansion	<100 x 10^{-6} /°K
Glass Transition Temperature (°C) (°F)	>40 (104)

APPLICATION DETAILS

Surface Preparation: The application surface must be dry and free from all kinds of dust, dirt, weak and loose particles, cement grout residues, oil, and grease. The concrete surface must be clean, durable, and of sufficient strength.

Plaster and paint on the application surface, if any, must be removed. Weak concrete pieces, if any, on the application surface must be removed and repaired with high-strength repair mortar and restored. The application surface must be cleaned using various methods such as holding compressed air, etc. to provide the highest adhesion strength.

Ambient Temperature: Minimum +15°C (59°F) and maximum +25°C (77°F)

Tool Cleaning: All tools should be cleaned with solvent immediately after use.

Application: Kratos Adhesive is offered as a total of 2 components. As the viscosity increases at low temperature, mixing and application of the material becomes difficult. For this reason, components A and B are heated separately in applications at low temperatures.

Consumption: Kratos Adhesive is applied on concrete surfaces with a consumption in the range of 2-3 kg/m² (0.41-0.61 lb/ft²), depending on the surface and workmanship. Then Kratos C-Plate is adhered to the surface on which Kratos Adhesive has been applied.

MIXTURE RATIO

	A	B
By Weight	1	1

SHELF LIFE & STORAGE

It must be stored at a temperature of minimum +15°C (+59°F) and maximum +25°C (+77°F), in a dry and protected area. Shelf life is 12 months from the date of manufacture in its original unopened package if stored under the described storage conditions. The physical and application properties of the material will change if stored in inappropriate conditions. Before starting the application, do not forget to bring the material to the properties it should have by heating or cooling it.

SHELF LIFE AND STORAGE CONDITIONS

The appropriate shelf life for unopened packages is 2 years. It is recommended to store the product in its original packaging in a closed environment protected from moisture, water and direct sunlight.

PACKAGING

A and B components are available in 2 separate packages.

SAFETY INSTRUCTIONS

Be sure to read and understand each product's own material safety sheet before using the products.

LEGAL DISCLAIMER

The recommendations regarding the use of Kratos C-Plate product presented by Kordsa Teknik Tekstil A.Ş. under the document are only recommendations and may vary according to the customer's purpose of using the product and technical data. Since the customer has the expertise and knowledge regarding the intended use of the product and the products made from the product in question, regardless of whether the product is used alone or with other materials, the customer undertakes all the risks and responsibilities arising from the use of the product. Kordsa Teknik Tekstil A.Ş. expressly declares that it is not liable for any loss and / or expense that may arise in the eye of the customer, regardless of whether it is used in accordance with the usage recommendation offered to the customer.