CF HIGH TACK

ADHESIVE

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CHEMOFAST®

Hanns-Martin-Schleyer-Str. 23
D-47877 Willich

Telephone 0 21 54/81 23-0
Fax 0 21 54/81 23-3 26

www.chemofast.de
info@chemofast.de

Technical properties

Chemical basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.F.)	ca. 5 min
Curing speed* (23 °C/50 % RH)	3 mm/24 h
Hardness**	65 ± 5 Shore A
Density**	1,47 g/ml
Elastic recovery (ISO 7389)**	> 75 %
Max. allowed distortion (ISO 11600)	± 20 %
Tensile strength (ISO 37)**	ca. 3,20 N/mm²
Elasticity modulus 100% (ISO 37)**	ca. 2,30 N/mm²
Elongation at break (ISO 37)**	400 %
Temperature resistance**	-40°C to +90°C
Application temperature	+5°C to +35°C

* These values may vary depending on environmental factors such as temperature, humidity or type of substrate.

** The data refer to the fully cured product.

Product description

CF HIGH TACK is a high quality, neutral, elastic, 1-component adhesive sealant based on SMX-Polymer with a very high initial tack of approx. 150Kg/m².

Properties and benefits

- Fast curing
- Good extrudability
- high shear strength after full cure (no primer)
- Stays elastic after curing and very sustainable
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- No odour
- Can be painted with water based systems
- Good weather and UV resistance
- Does not contain isocyanates and no silicones
- Good adhesion on slightly moist substrates

Application examples

- Adhesive applications in the building trade
- Elastic bonding of panels, profiles and other parts to common substrates (wood, MDF, chipboard, etc.)
- Strong elastic bonding for vibrating constructions

Packaging

Colour: White
Packaging: 290 ml Cartridge

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Good resistance to (salt)water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates and

CF HIGH TACK is suitable for use on all common building substrates, as well as on PVC, plastic, treated wood and much more.
Before application, the substrate should be checked for load-bearing capacity and should be clean, dry and free of dust and grease.
Porous surfaces should be primed with a primer.
Non-porous surfaces should be pre-treated with an activator or cleaner if necessary.
Adhesive surfaces should be degreased before application.

CF HIGH TACH has been tested on the following metal surfaces:
AlCuMg1, AlMg3, stainless steel, galvanised steel, steel ST1403, hot-dip galvanised steel.
CF HIGH TACK has good adhesion to the following plastics:
Polycarbonate (Makrolon®), polyamide, glass fibre reinforced epoxy resin, polyester.

Release agents, auxiliary materials and protective agents (e.g. protective films) are very often used in the production of plastics. These must be removed before bonding or sealing. For optimal adhesion, the use of an activator is recommended.

NOTE: When bonding plastics loaded to stress such as PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®), stress cracks or net cracks may form in the material. The CF CRYSTAL is not recommended for these applications. The CF CRYSTAL is not suitable for PE, PP, PTFE (e.g. Teflon®), bituminous substrates, copper or materials containing copper such as bronze and brass. It is advisable to first carry out an adhesion and compatibility test on each substrate.

The following table of the application overview gives an orientation.

Overview applications			
Material		Pre-treatment	CF HIGH TACK
		Basically, cleaning the materials with plastic or metal cleaner is sufficient and pre-treatment is not necessary, it is only based on a recommendation and serves to improve and ensure process reliability.	Suitability
Metals	Aluminium	Adhesive Cleaner Universal	● ●
	Copper	Adhesive Cleaner Universal	●
	Brass	Adhesive Cleaner Universal	●
	Stainless steel	Adhesive Cleaner Universal	● ●
	cast iron steel	Adhesive Cleaner Universal	● ●
	hot-dip galvanised parts	Adhesive Cleaner Universal	● ●
	galvanised parts	Adhesive Cleaner Universal	● ●
Plastics	ABS	Plastic and varnish primer	● ●
	Polyethylene (PE)	Corona / Plasma	●
	PMMA (acrylic)	Plastic and varnish primer	● ●
	Polyamides (PA 6, PAA 6.6, Nylon*)	Plastic and varnish primer	● ●
	Polycarbonates (PC)	Plastic and varnish primer	● ●
	Other polyesters (PBT, PET)	Plastic and varnish primer	●
	Polystyrene (PS)	Plastic and varnish primer	● ●
	Polysulphones (PSU)	Plastic and varnish primer	●
	Polypropylene (PP)	Primer for PP	● ●
	PVC	Plastic and varnish primer	● ●
Varnishes	Water-based coatings*	Plastic and varnish primer	● ●
	Powder coating systems*		● ●
	Synthetic resin coatings*		● ●
Composi-tes	Celluloses (CAB, CAP)	Plastic and varnish primer	● ●
	Carbon (CFK)	Plastic and varnish primer	● ●
	Gelcoat**		● ●
	Fibreglass (GFK)	Plastic and varnish primer	● ●
	Polyester resin (UP)	Plastic and varnish primer	● ●
	Polyurethane (PU)	Plastic and varnish primer	● ●
	PTFE (Teflon*)		–
	Epoxy	Plastic and varnish primer	●
	Silicones		–
Wood	Wood (hard and soft)	dedusting	● ●
	Wood materials	dedusting	● ●
	Plywood	dedusting	● ●
Other	Glass	Plastic and varnish primer	● ●
	Ceramics	Adhesive cleaner Universal	● ●
	Concrete	Plastic and varnish primer	● ●
	Bricks	Plastic and varnish primer	● ●

● ● = well suitable

● = suitable

– = not advisable

* Due to the large number of paint systems on the market, in-house tests are necessary to determine the lowest possible pre-treatment.

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Joint dimensions

- Min. width for bonding: 2 mm
- Max. width for bonding: 10 mm
- Min. width for joints: 5 mm
- Max. width for joints: 30 mm
- Min. depth for joints: 5 mm

Recommendation for sealings: Joint width = 2 x joint depth

Handling

A manual, battery-operated or pneumatic cartridge squeezer must be used for processing. Cleaning processes are to be carried out before the material has cured. A suitable cleaner is petroleum ether.
The CF HIGH TACK can be used for touching up/repairing cured CF HIGH TACK.

Safety instructions

Follow the usual regulations for industrial hygiene. Further information can be found on the packaging and in the safety data sheet.
CF CRYSTAL may be disposed of in household waste in normal quantities. Anything in excess of this must be disposed of separately at a specialist disposal company (mobile hazardous waste collection point, materials depot with hazardous waste collection point, etc.).

Remarks

- CF HIGH TACK can be overpainted with water-based paints. However, due to the variety of paints and varnishes available, it is strongly recommended to carry out a compatibility test before application.
- The drying time of alkyd resin-based paints may increase.
- CF HIGH TACK can be applied on a variety of substrates. Since certain substrates such as plastics, polycarbonate, etc. may vary depending on the manufacturer, it is recommended to carry out a compatibility test beforehand.
- CF HIGH TACK cannot be used as a sealant for window glazing.
- When processing, make sure that the adhesive surfaces are not soiled.
- CF HIGH TACK may discolour under extreme conditions or after very long exposure to UV light.
- CF HIGH TACK is not suitable for use as a sealant on porous materials, e.g. natural stone, as these may discolour.
- CF HIGH TACK is not suitable for bonding aquariums.
- CF HIGH TACK must not be used if permanent exposure to water is possible.
- Discolouration may occur due to chemicals, high temperatures or UV radiation. Colour changes do not affect the technical properties of the product.
- Avoid contact with bitumen, tar or other materials that release plasticisers, such as EPDM, neoprene or butyl. Possible consequences of contact are discolouration of the product and loss of adhesion.

NOTE

The information in this technical data sheet is based on tests, monitoring and experience. They are of a general nature and do not establish any liability. It is up to the user to determine with his own tests whether the agent is suitable for the intended application.