



PRODUCT INFORMATION

COROFLAKE 24 AR TC

PRODUCT DESCRIPTION

COROFLAKE 24 AR TC is a two-component, highly abrasion resistant Bisphenol-A vinyl ester resin, which was designed in particular for chemical plants and vessels in which, in addition to chemical and thermal stress, high abrasion occurs due to solids. By using a special filler, **COROFLAKE 24 AR TC** achieves excellent abrasion resistance.

COATING BUILD-UP

The coating consists of the two-component topcoat **COROFLAKE 24 AR TC**. The total dry film thickness to be applied is approx. 500 µm.

FIELDS OF APPLICATION

COROFLAKE 24 AR TC is applied as a top coat to increase the abrasion resistance of polymer coatings based on Bisphenol-A vinyl ester resins. **COROFLAKE 24 AR TC** is mainly used in absorbers and tanks of flue gas cleaning plants and in plants and storage tanks in the chemical industry where high abrasion by solids occurs.

FEATURES

- High abrasion resistance
- Good resistance to chemicals and temperatures
- Very good adhesion to polymer coatings based on Bisphenol-A vinyl ester resins
- Application by airless-spraying

CHEMICAL RESISTANCE

Requests for chemical resistance can be sent to awt@tiptop-elbe.de.

SUBSTRATE

Substrates are coatings based on Bisphenol-A vinyl ester resins. The components to be coated must be designed and manufactured in accordance with DIN EN 14879-1.

SURFACE PRE-TREATMENT

The previously applied coatings can be overcoated directly without surface preparation. The requirement is that the coating was applied no longer than 72 hours ago. If this time interval is exceeded, the coated surface must be roughened by blasting.

CLIMATIC CONDITIONS

During application, direct or indirect sunlight must be avoided and the climatic conditions specified in the application instruction must be observed. To avoid condensation, a dew point difference of at least 3K must be maintained. During application, the materials must never be colder than the ambient temperature at the workplace.

MIXING RATIO

The coating materials are delivered to the construction site in mixing units so that there is no need to weigh or measure the individual components. After mixing a unit, it must be applied within the specified pot life.

Top coat	Weight parts	Volume parts
COROFLAKE 24 AR TC	100	100
HARDENER No. 1 CLEAR	2	2.4

APPLICATION METHOD | CONSUMPTION

Always observe the current application instruction before using the products. During coating work, direct or indirect sunlight must be avoided absolutely. Ground surfaces must be generally cleaned with **SOLVENT F12**.

Product	Application	Thickness	Consumption
COROFLAKE 24 AR TC	Airless spray	500 - 700 µm	ca. 900 - 1100 g/m ²

The consumption indicated is an average value. The actual consumption depends on the object geometry and the application method. It can therefore vary.

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POT LIFE | RECOAT TIME

Product	Working time			Recoat time (20°C)	
	15°C	20°C	30°C	Min.	Max.
COROFLAKE 24 AR TC	90 min	60 min	30 min	-	-

CLEANING

All equipment should be cleaned with **SOLVENT T-200** immediately after use. The equipment should be cleaned in a well-ventilated area. It is recommended to flush the spraying equipment several times during the working day. The frequency of cleaning depends on the spray volume, temperature and elapsed time, including possible delays.

SPARK TEST

The spark test is carried out in accordance with EN 14879-2 using a high-voltage tester. The previously measured average dry film thickness is the basis for the test voltage. The test is carried out at the earliest 24 hours after finishing the top coat at a curing temperature of +20°C.

Product	Test voltage
COROFLAKE 24 AR TC	0,5 kV / 100 µm DFT

DELIVERY FORM | MINIMUM SHELF LIFE

Product	Packaging	Article No.	Storage temperature	Min. shelf life
COROFLAKE 24 AR TC	5 kg	590 2010	5 - 20°C	6 Mon
COROFLAKE 24 AR TC	20 kg	590 2000	5 - 20°C	6 Mon
HARDENER No. 1 CLEAR	0.1 kg	590 0181	5 - 20°C	12 Mon
HARDENER No. 1 CLEAR	0.4 kg	590 0019	5 - 20°C	12 Mon
HARDENER No. 1 RED	0.1 kg	590 0356	5 - 20°C	12 Mon
HARDENER No. 1 RED	0.4 kg	590 0112	5 - 20°C	12 Mon
SOLVENT F12	4 kg	590 0095	5 - 20°C	12 Mon
SOLVENT T-200	4 kg	590 0610	5 - 25°C	60 Mon
SOLVENT T-200	8 kg	590 0611	5 - 25°C	60 Mon

SAFETY MEASURES

The safety data sheets for the individual components and the legal regulations for handling hazardous substances must be observed. The prescribed personal protective equipment must be worn. Information on disposal can be found in the safety data sheets for the individual products. The safety data sheets can be downloaded from our homepage in the download area.

PHYSICAL DATA

Properties	Standard	Unit	Value
Abrasion	ASTM D4060	mg	55
Adhesive strength steel	EN ISO 4624 (ASTM D4541)	N/mm ²	≥ 7
Barcol hardness	EN 59 (ASTM D2583)	Barcol	≥ 35
Density (mixture)	EN ISO 2811 (ASTM D1475)	g/cm ³	1.23 ± 0.03
Max. Temperature dry (flue gases)	-	°C	+120
Max. Temperature for liquids	-	°C	+75
Polymer base	-	-	Vinyl ester
Tensile strength	EN ISO 527 (ASTM D638)	N/mm ²	20



// ONE BRAND // ONE SOURCE // ONE SYSTEM

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PHYSICAL DATA

Properties	Standard	Unit	Value
Viscosity	EN ISO 2555 (ASTM D2196)	mPa·s	2750 ± 250

The specified temperatures depend on the existing load and can therefore vary.

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.