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## TUBIVIS UNIQUE 432 E

<b>Characterization</b>	Highly concentrated polyacrylate thickener for Chromojet® carpet spray printing
<b>Chemical Structure</b>	Polyacrylate formulation in a biodegradable support medium
<b>Supplied Form</b>	Yellowish - brown liquid
<b>Ionic Character</b>	Anionic
<b>pH Value</b>	6.0 – 7.0 in 1% stock solution (depending on the water quality)
<b>Stock Preparation</b>	0.5– 1.5 % in soft water
<b>Stabilities</b>	Prepare stock and print pastes with soft water to guarantee processing without problems.  The product is sensitive to frost. After the impact of temperatures far below the freezing point irreversible changes will occur.
<b>Storage</b>	In a cool and dry place in originally closed containers. We recommend not exceeding a storage time of 6 months. The product should be stirred up before use. Water must not get into the product.

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The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

### Properties

#### Filterability

TUBIVIS UNIQUE 432 E can be excellently filtered and can be easily used on all Chromojet® carpet printing lines because of its high purity. Nozzles and inline filters are not expected to clog. Owing to its rheological properties TUBIVIS UNIQUE 432 E is suited for low to very high viscosities.

#### Rheology

Only low application amounts of TUBIVIS UNIQUE 432 E are needed to produce pseudoplastic print pastes. Due to the special rheology of TUBIVIS UNIQUE 432 E, an excellent sharpness of the outlines is guaranteed.

#### Biodegradability

TUBIVIS UNIQUE 432 E has a very good biodegradability. The polyacrylate in TUBIVIS UNIQUE 432 E is usually eliminated with the sewage sludge of biological purification plants.

## Ease of Removal

TUBIVIS UNIQUE 432 E can be washed out very well after the normal saturated steam fixation on standard washing units of carpet spray printing plants.

## Preservation

Because of the biodegradable support medium, TUBIVIS UNIQUE 432 E can be attacked by bacteria after standing for a longer time. Furthermore, print pastes in aqueous systems are a good nutrient medium for micro-organisms that can destroy other print paste components as well as dyestuffs.

With a proper working procedure and cleaning of the production units we consider the addition of a preservation agent unnecessary.

## Application Procedure

### Diluting Instructions

TUBIVIS UNIQUE 432 E stands out for its excellent swelling behaviour.

99.0	-	98.5	%	cold, soft water (<3 °dH are recommended)
1.0	-	1.5	%	TUBIVIS UNIQUE 432 E
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		100.0	%	stock thickening

- Preset cold water
- Stir in TUBIVIS UNIQUE 432 E while the stirring unit is running at high speed
- Stir at high speed until the entire thickening preparation has a homogeneous, creamy-like appearance (approx. 15 to 20 min)
- In any case the use of a strong and fast running stirring unit is necessary to achieve the full thickening power and to thoroughly blend the stock preparation
- The stock thickener can alternatively be made with continuous dispersing units

A stock preparation of TUBIVIS UNIQUE 432 E can also be made with the SUPRAMIX from Messrs. Zimmer.

## Textile Substrates

TUBIVIS UNIQUE 432 E is applied for printing polyamide and wool carpets. Pretrials have to be done before printing on polyacrylic or polyester carpets.

## Dyestuff Classes

Normally, all acid and metal complex dyestuffs usually applied for carpet printing can be used, but interactions between some dyestuffs (particularly metal complex dyestuffs) may occur which change the viscosity or the rheology. Preliminary compatibility tests may have to be carried out. When using cationic dyestuffs compatibility trials have to be generally carried out in advance.

## Recommendation for Use

TUBIVIS UNIQUE 432 E is preferably used for carpet spray printing on Chromojet® machines. It completely swells without needing further auxiliaries and can be applied in many cases without a further regulation of the pH value. This makes it easier to adjust the viscosity and therefore less TUBIVIS UNIQUE 432 E is needed.

## Recipe Proposal

	x	g	soft water (we recommend <3 °dH)
350	-	800	g TUBIVIS UNIQUE 432 E stock solution
0	-	2	g KOLLASOL AD
0	-	y	g citric acid, 1:2 dissolved in water
		z	g dyestuff
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	1,000	g	print paste

The applied stirring unit has to be able to blend all components homogeneously.

Depending on the water quality, the dyestuff, the dyestuff concentration and the pH value, the application amount of TUBIVIS UNIQUE 432 E may slightly vary. As guideline we recommend a print paste viscosity of 270 - 450 mPas (VT-02). This can deviate depending on the carpet quality.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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**CHT Germany GmbH P. O. Box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany**

**Telephone: 07071/154-0, Fax: 07071/154-290, Email: [info@cht.com](mailto:info@cht.com), Homepage: [www.cht.com](http://www.cht.com)**

**CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul, Tel: +90 212**

**886 79 13, Fax:+90 212 886 93 47,**

**Email: [info.turkey@cht.com](mailto:info.turkey@cht.com)**