

MESITOL[®] P liquid 50 %

Fixation agent / prevents problems with pitch

Chemical Description	Formaldehyde condensation product of naphthalene sulphonic acids
Ionicity	Anionic
Solids	50.0 - 54.0 %
Form supplied	Dark brown aqueous solution
Density	1.19 - 1.23 g/cm ³ (20 °C)
pH value	5.5 - 7.5 (10 % solution in water)
Viscosity	20 - 60 mPa · s (20 °C; Ford beaker DIN 2431; No. 3)
Storage stability	6 months ex works (sensitive to frost but can be used as normal after thawing).
Recommended for	Preventing problems with pitch. Fixation of basic dyestuffs. Reducing mottling. Dispersion of colour pigments.
Remarks	Notes on safety: see safety data sheet

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Technical notes on application

Mode of action

When using highly resinous furnishes, harmful resin is released, particularly from vascular ray cells. High shear rates, hard water salts, etc., can cause agglomeration of the finely dispersed resin, leading to problems such as:

precipitation of the resin in the pulper, chests and pipes

holes in the paper web resulting from blinding of screens and felts

breaks caused by sticking to presses, resin deposits in the paper.

MESITOL P liquid 50 % acts as a dispersing agent, thereby preventing agglomeration and the resultant problems as described above.

The products excellent dispersing properties are also advantageous in the application of inorganic colour pigments, improving both the intensity and uniformity of pigment dyeings.

On account of its anionic character, MESITOL P liquid 50 % also precipitates or fixes basic (cationic) dyestuffs. It can therefore be used as a levelling and fixation agent for this class of dyestuffs.

Pitch control agent

Pitch problems occur with both unbleached highly resinous sulphite pulp and mechanical pulp from insufficiently matured wood. They may also be caused by intensive refining.

In such cases, MESITOL P liquid 50 % should be added to the stock as early as possible, e.g. in the pulper. Additions depend, among other things, on the resin content of the pulp, the type of broke, freeness, pH and the hardness of the process water. Additions therefore vary between 0.4 and 0.8 %.

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Fixation agent for basic dyestuffs

It is a well-known fact that bleached chemical pulp cannot be dyed satisfactorily with basic dyestuffs. An addition of MESITOL P liquid 50 % improves uptake of basic dyestuffs, producing deeper dyeings and better fastness properties and reducing staining of process effluent.

1 - 2 % MESITOL P liquid 50 % (calculated on air-dry furnish) is required, depending on the intensity of the dyeing. The product should preferably be predissolved and added to the stock before the dyestuffs. The stock can then be sized as usual with rosin size and aluminium sulphate.

Note that MESITOL P liquid 50 % is only fully effective as a fixation agent for basic dyestuffs in the strongly acid range below approx. pH 5.5.

Auxiliary to reduce mottling

In the case of mixed furnishes containing components with varying affinity for basic dyestuffs, MESITOL P liquid 50 % can level out differences in dye uptake. The amount required depends on the amount of dyestuff and is generally between 1 and 2 % MESITOL P liquid 50 %, calculated on air-dry furnish.

Dispersing agent for colour pigments

MESITOL P liquid 50 % enhances the intensity and uniformity of shade. The pigment should be pasted up in water with approx. 4 % MESITOL P liquid 50 % calculated on the pigment content, then applied as usual.

Use in food packaging papers

Under recommendation XXXVI of the German Federal Institut for Risk Assessment (BfR) MESITOL P liquid 50 % may be used in food packaging papers, provided that the aqueous extraxt of the finished products contains max. 1 mg formaldehyde per dm². Practical experience shows that, if normal quantities of MESITOL P liquid 50 % are used, this limit is nor reached.

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Packaging information

Sample

IBC	1200 kg
RTC	> 5 t
Drum	145 kg

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Kemira PPC Germany GmbH
Chemiepark
51368 Leverkusen
Germany
www.kemira.com