

WE MAKE THE PALETTE FOR PAPER



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DATA SHEET

HARISIZE 400 A

(Surface Sizing Agent)

HARISIZE 400 A, surface sizing agent, is designed specifically to meet the requirement in sizing for medium and liner paper. Although, starch is widely used in surface sizing and it does improve surface strength and ring crush, but it has no thing to do with sizing performance, i.e. Cobb, so an additional sizing agent must be added to the starch system either to get a higher sizing effect or to further reduce sizing agent in the wet-end. With **HARISIZE 400 A** sizing Effect can easily be got, that means a more stable paper quality in every roll also; **HARISIZE 400 A** can easily be used in the surface sizing process due to its excellent.

Compatibility to surface starches including oxidized starch, APS converted starch, and Hydrogen peroxide converted starch.

GENERAL PROPERTIES:-

1. Appearance : Slight Brown liquid
2. Composition : Anionic acrylic copolymer dispersions
3. Lonicity : **Anionic**
4. Solid content : 28-31%
5. pH value : 4.0 – 6.0 (1% aq. Soln. Tested at 250 c)
6. Solubility : Easily soluble in ambient or warm water.

CHARACTERISTIC:-

1. **HARISIZE 400 A** exhibits good compatibility to surface sizing starch solution, Including oxidized starch, APS converted starch and HPO converted starch.
2. **HARISIZE 400 A** is stable to wet – end chemicals, Such as Alum that always leaches Out to the starch solution and may cause flocculation to anionic Chemicals, but alum causes no harm to **HARISIZE 400 A**.
3. **HARISIZE 400 A** is a non-foaming chemical, and causes no froth in the Recycling Starch solution, so it can be used in various surface sizing system, e.g. Size Press, sys-size, gate-roll, etc.
4. **HARISIZE 400 A** is very quick in curing, so after dryer the paper shows good cobb Size Immediately
5. **HARISIZE 400 A** is very low corrosive, and so not harmful to paper machine.

APPLICATION:-

1. **HARISIZE 400 A** is usually applied in the size press / metering size press in combination with starch, but it can also simply be diluted with water.

2. It can be added in batches or continuously, the latter method being more Versatile in that it enables levels of addition to be adjusted more quickly as circumstances demand.
3. The paper does not necessarily have to be sized at the wet end before **HARISIZE 400 A** is applied but this can be an effective means of controlling the extent to which the size solution is able to penetrate.
4. Between 5g/ land 20g/l of **HARISIZE 400 A** are required for hard sized paper depending on factors such as whether any size is added at the wet end, etc. It can be combined with starch in concentration between 20g/l and 130 g/l.

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