

Technical - Information

AVCO-DEEPENER 7900

COLOUR DEEPENING AGENT FOR POLYESTER AND BLENDED FABRICS

AVCO-DEEPENER 7900 is a colour deepening agent designed to increase the depth of primarily polyester and their blended fabrics, dyed in black, navy blue or dark shades by post treatment of fabric.

AVCO-DEEPENER 7900 is free from critical problems troubles such as gum up, hand mark, spot and slip trouble which are common among the products of this class.

AVCO-DEEPENER 7900 imparts a neutral handle, slightly bulky, non-slippery.

SPECIFICATION:

Appearance	Milky white emulsion.
Chemical nature	Co-polymer of modified acrylate.
Ionic character	Weak cationic.
pH (10%sol.)	4 - 6
Solubility	Easily dispersible in cold water in all proportion.
Compatibility	Pretest before use together with other finishing agents is highly recommended.
Storage	Store at 5 - 35°C and should be protected from frost. Stable for at least 6 month at room temperature.

PROPERTIES & USES:

1. AVCO-DEEPENER 7900 provides maximum colour-depth of disperse black and sulphur black. The colour intensification effects up to 30 - 40% of depth shade.
2. AVCO-DEEPENER 7900 produces astounding JET Black, in bluish shade.
3. Excellent durability stable to multiple washing and dry-cleaning cycles.
4. Does not affect the fastness properties of colour goods.
5. AVCO-DEEPENER 7900 has a very good mechanical, chemical and thermal stability.
6. No occurrence of chafe marks.
7. Mainly used by padding method. No problems of ending and tailing.

APPLICATION:

The Jet-black finish is a sensitive process and hence inadequate control during processing can affect the fastness and also result in uneven effects. Although, AVCO-DEEPENER 7900 is free from such common problems to have optimum benefits and avoid unevenness, please refer followings:

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Preparation of the substrate:

After dyeing and reduction clearing, acid neutralizing is necessary (set pH 5 ~ 5.5, rinsing with ca 0.5 g/l acetic acid) to remove residual alkalis and surfactants. Improper pH of the dyed fabric will result in poor effects on deep-dyeing process. Then the fabrics needs to sufficient drying before transferring to padding bath.

Preparation of finishing bath:

Put the auxiliaries under 30°C finishing liquor. Do not stir or subject the bath to high shear. Being reactive in nature, do not store AVCO-DEEPENER 7900 at temperature above 30°C for extended time.

Water quality:

Use soft de-ionized water without inorganic salts.

Pressure of padder:

Keep constant pick up during all process.

Stenter speed:

Recommended speed is 10 – 30 m/min. Higher fabric speed can bring about stains and other shear problems.

Check compatibility with other chemicals:

Sufficient pre-trials are recommended when used with other finishing agents in pad baths. It is necessary to check the color yield after treatment.

Dosage:

10 – 20 g/l AVCO-DEEPENER 7900

Pad – Dry (150°C) – Cure (170°C)

Drying and curing times will be varied based on fabric construction.

Storage stability:

AVCO-DEEPENER 7900 may be stored up to 6 months in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

Storage beyond the expired date does not necessarily mean that the product is no longer usable. In this case however, the product should be thoroughly agitated and the properties required for the intended use must be checked for quality assurance reasons.