

TECHNICAL INFORMATION SHEET

TexBond FA

Description:

TexBond FA is a polyvinyl acetate emulsion which is useful for textile finishing where semi-permanent finish is required for cotton, linen, polyester, rayon and their blends. It enhances their handles, quality and appearance.

The wash fastness of the finish is not as permanent as that is obtained with thermosetting resins e.g. urea formaldehyde, melamine formaldehyde. However, it can be improved by the use of a small quantity of such additives. Treated goods can safely be dry-cleaned in white spirit or perchloro ethylene, but trichloroethylene must be avoided.

Physical and Chemical Properties:

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| Appearance | Milky white Paste |
| Smell | Characteristic smell |
| pH value | (4.0 – 6.0) at 30°C |
| Solid Content | (49 ± 1) % |
| Specific Gravity | (1.060 ± 0.020) at 30°C |
| Solubility | Thinned with water in all proportions |
| Stability/Compatibility | Thinned with water in all proportions Compatible within the pH range of 2-10 with many natural and synthetic colloids and anionic or non-ionic wetting agents. |
| Shelf Life | 120 Days (if stored in sealed and fresh container) |

Functions:

- » Excellent adhesion to natural and synthetic fibers no tendering of fabrics
- » Colorless, odorless and natural
- » Non-discoloring, non embrittling on ageing resistance to chemicals and mildew
- » Non-inflammability
- » Curing equipment not necessary
- » Easy and quick preparation of finishing bath good storage stability
- » Consistent and efficient quality

Application Area:

TexBond FA is particularly suitable for finishing light weight cottons, long cloth, full voile, mull, lawn, dothi, poplins gingham, shirting and flannelettes. Lace fabrics, elastic and rigid webbing, nets and scrim and industrial flooring felts may also be satisfactorily finished. It can also be used for imparting fullness to loosely woven rayon goods.

TexBond FA is a base of domestic permanent starches where its use corresponds closely to industrially apply semi-permanent finishes. Other specialized finishing application includes nylon hosiery finishing, carpet back sizing and retexturing processes.

Characteristics Of TexBond FA:

It is finely divided dispersion in water or polyvinyl acetate, a thermoplastic synthetic resin. It is a milky white liquid having viscosity. It can be thinned with water in all proportions. It contains no solvents and is non-inflammable and non-toxic in handling and almost odorless in use. It air dries by evaporation of its water content to give a resin film of excellent adhesion, durability and water resistance. Plasticizers like DEP can be added to impart flexibility and softness to resin. It is slightly corrosive to iron and mild steel and should be stored in wooden vats or polyethylene or stainless steel containers. It is fully polymerized and does not combine chemically with the structure of the textile fiber. Consequently, it does not appreciably improve the crease-and shrink-resistance of the treated goods.

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Compatibility:

TexBond FA is normally used without modification in most finishing applications but is compatible within the pH range of 2-10 with many natural and synthetic colloids and anionic or non-ionic wetting agents. It can therefore be used in conjunction with starches, starch ethers, dextrans, gelatine, gums, glues and synthetic finishing agents such as CMC and Polyvinyl alcohol. If required, the emulsions can be pigmented or filled and modified with waxes, silicones, optional whitening agents etc. Thermosetting resins may be used to improve the wash resistance of the finish.

Finishing Procedure:

Resin finished based on TexBond FA are applied as the last wet operation in the finishing process. The finishes are applied from a bath of the finishing composition and the goods are impregnated by padding or similar techniques. Standard types of padding mangles used for starch finishing are satisfactory. The liquor bath is prepared by first diluting the emulsion with 5-10 times its volumes of cold or warm water, the addition being made gradually with constant stirring to obtain a uniform dispersion. The diluted emulsion is then thinned with more water to the required concentration, which depends on the resin pick-up desired on the goods and also on the wet expression of the padding mangle. In practice, the emulsion concentration of the padding liquor may vary between 1% and 10% depending on the type of finish and handle required, but in some applications the emulsion is used at greater resin concentration or even undiluted.

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Handling & Storage

Storage

Store in sealed container (HDPE drum or SS container) in dry condition at temperatures between (15 – 30)°C, away from direct heat, sunlight, dust, moisture any sort of chemical's contamination. Equipment used in handling this product can be washed easily with water before it dries up. Hot water with little scrubbing is required to clean the dried product. Containers once opened should be consumed immediately and shut tightly to prevent contamination. Sanitize with sanitization solution after cleaning of used up containers.

Stocks should be used on first in and first out basis. Do not mix with other products without consulting R&D or do your test to determine its suitability, as it can lead to incompatibility and other related problems.

Handling

Transport & storage should be performed under shade, cleaned & closed area and away from heat sources at all time. Use PPE (Hand gloves, Goggles, Cleaned cloth & shoe etc) during filling and transfer to prevent human contact with product. Product's transfer should be performed in clean & properly sanitized transfer lines and pumps.

Footnote

The information in this TDS is given in good faith and is correct to the best of our knowledge as of the date hereof; however Berger Paints Bangladesh Limited makes no representation to its completeness or accuracy. Customers are requested to evaluate and test the product for their application to find out the suitability before use. Berger Paints Bangladesh Limited disclaims responsibility to damage of any kind resulting from the use of this information. .