



塗料用 水系シリコンエマルジョン CoatOSil™ Clean (コートシル クリーン) ご紹介

モメンティブ・パフォーマンス・マテリアルズ・ジャパン
CAS/PE事業部

March 2024

<主な塗料分野>

- 建築塗料 (室内、木工)

<特長>

- 環境対応 (VOC低減、環状シロキサン低含有)
- 各種水系エマルジョンへの優れた相溶性

<利点>

- 耐汚染性の向上
- 耐水性・耐油性の向上
- 耐擦過性の向上
- ブロッキング性向上

<物性：代表値>

- 外観：乳白色液体
- 固形分：45%
- pH：6
- 粘度：300 mPas at 25°C
- 粒子径：300nm



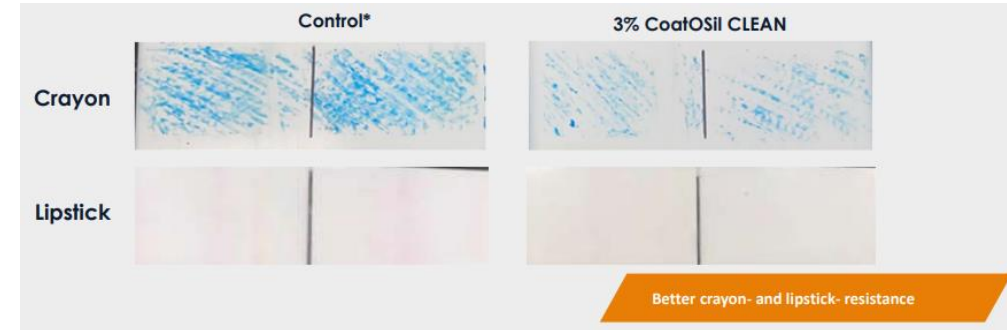
<その他>

- 化審法既存化学物質
- 品質保持期間：製造日から2年

<塗膜特性向上事例>

汎用塗料へCoatOSil Clean 3%添加

- 耐汚染性の向上 (クレヨン、リップステック)



- 耐水性の向上 (塗膜表面の水跡の減少)



Control: acrylic semi gloss paint
Formulation:
• PVC19%
• Resin: acrylic Emulsion (ACRONAL PLUS4670/BASF)
• Pigment: TiO2(R902)
Cure condition: Room temp. 2hr
Substrate: Plastic

注：テストデータ、実際の結果は異なる場合があります。

<使用方法>

- 塗料製造時における各種エマルジョンへのブレンド及び塗料への後添加
- 推奨添加量(*) 1~3%
(*) 個別の使用に適した量は別途ご確認いただく必要があります。

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塗料用 水系シリコーンエマルジョン CoatOSil™ F (コートシル エフ) ご紹介

モメンティブ・パフォーマンス・マテリアルズ・ジャパン
CAS/PE事業部

March 2024

<主な塗料分野>

- 建築塗料 (屋外、室内)

<特長>

- 各種水系エマルジョンへの優れた相溶性

<利点>

- 長期的な塗膜の耐候性向上
 - ✓ 色あせ防止
 - ✓ 撥水性の向上と保持
 - ✓ 白化 (チョーキング) 防止
- 耐擦過性の向上

<物性：代表値>

- 外観：乳白色液体
- 固形分：60%
- 比重：1.0
- pH：5.5



<その他>

- 化審法既存化学物質
- 品質保持期間：製造日から2年

<塗膜特性向上事例>

建築屋外塗料へCoatOSil F 3%添加

- 耐候性向上及び色あせ防止



照射無

1500Hrs 照射

- 撥水性の向上と保持 (水接触角が高い)



照射無

1000Hrs 照射

Left: Control: High PVC Commercial paint without CoatOSil F

Right: Post adding 3% CoatOSil F

1500Hr/1000Hrs accelerated weathering test

注：テストデータ、実際の結果は異なる場合があります。

<使用方法>

- 塗料製造時における各種エマルジョンへのブレンド
及び塗料への後添加
- 推奨添加量(*) 1~5%

(*) 個別の使用に適した量は別途ご確認いただく必要があります。

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塗料用 水系シリコンエマルジョン CoatOSil™ DRI (コートシル ドライ) ご紹介

モメンティブ・パフォーマンス・マテリアルズ・ジャパン
CAS/PE事業部

March 2024

<主な塗料分野>

- 建築塗料 (屋外、室内)

<特長>

- 常温硬化
- 環境対応 (VOC低減)
- 各種水系エマルジョンへの優れた相溶性
- アクリルエマルジョン等添加しバインダーの一部として使用することにより高柔軟性を有する塗膜を形成

<利点>

- 耐候性及び耐水性向上
- 柔軟性向上

<物性：代表値>

- 外観：乳白色液体
- 固形分：45%
- pH：11
- 粘度：20 mPas at 25℃
- 粒子径：120nm



<その他>

- 化審法既存化学物質
- 品質保持期間：製造日から2年

<一般物性特性 (フィルム) >

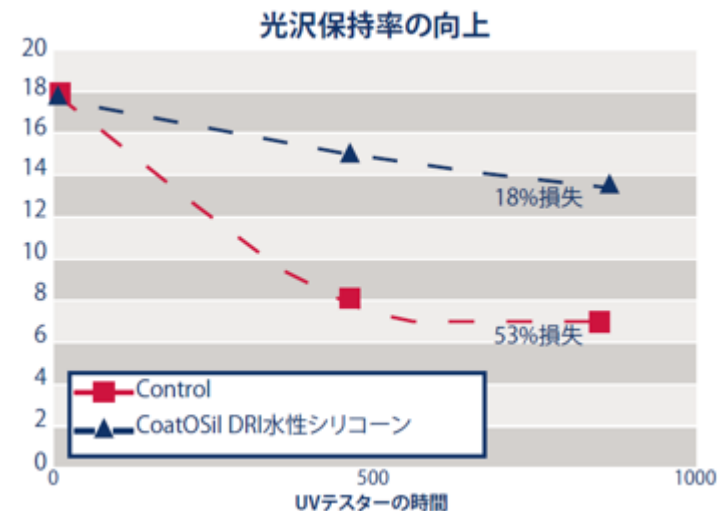
- 引張り強度(psi): 約500
- 伸び: 約450%
- 硬度 (ショア A): 約30
- Tg (by DSC): - 41℃



<塗膜特性向上事例>

建築屋外塗料へCoatOSil DRI 3%添加

- 光沢保持率と色彩安定性向上



<使用方法>

- 塗料製造時における各種エマルジョンへのブレンド及び塗料への後添加
- 推奨添加量(*) 5~10%

(*) 個別の使用に適した量は別途ご確認いただく必要があります。

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水系向けVOC低減密着向上及び架橋剤 CoatOSil™ MP200 (コートシル MP200) のご紹介

モメンティブ・パフォーマンス・マテリアルズ・ジャパン
CAS/PE事業部

March 2024

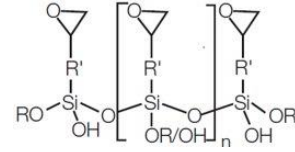
水系向けVOC低減密着向上及び架橋剤 (エポキシシランカップリング剤オリゴマータイプ)

<主な用途分野>

- 各種 水系溶剤系塗料、接着剤、シーラント

<特長・物性>

- 水系用途での優れた安定性
- シランカップリング剤としての有効成分100% (*1)
- 環境対応 (VOC低減)



CoatOSil MP200 構造

VOCの発生量:約1/4 (対モノマーA-187タイプ)
(加水分解時のVOC発生量:1/2、推奨添加量(*2) 1/2 以下)

<利点>

- 密着性、耐水性、耐薬品性の向上
- 防食性、擦り耐性の向上、膨れ等の改善

<その他>

- 化審法低生産量新規化学物質 (10MT/年 2024年3月現在)
- 品質保持期間：製造日から2年

<使用方法>

- 各種配合へ直接添加、または水溶液にて添加
- 推奨添加量(*2) 0.5%

(*1) 意図的な溶剤使用のないことを意味し、不純物としてメタノール0.1%-1%含有

(*2) 個別の使用に適した量は別途ご確認いただく必要があります。

<塗膜特性向上事例>

水系エポキシ塗料へCoatOSil MP200 0.5%添加

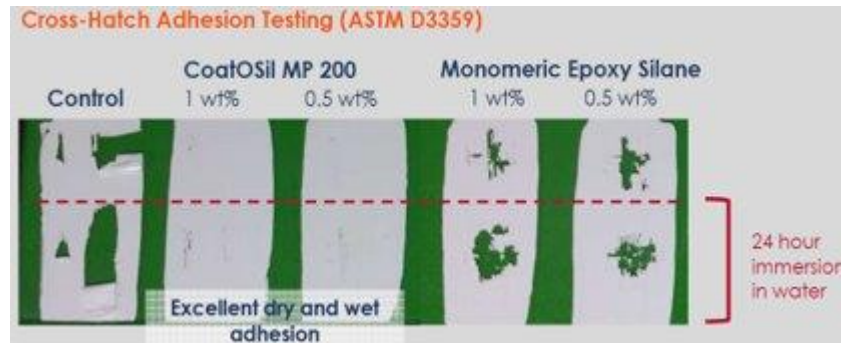
- 密着性向上により耐腐食性（防錆性）が向上



著しく不良 不良 良好

無機顔料塗料へCoatOSil MP200 0.5%添加

- 密着性向上、フィラー間架橋により耐水性や擦り耐性が向上



添加無し MP 200添加 エポキシシランモノマー添加

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